

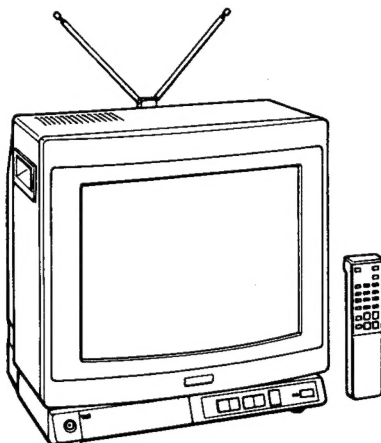
# KV-1326R

## RM-717

# SERVICE MANUAL

*Canadian Model*

*Chassis No. SCC-552Y-A*



## P3 CHASSIS

### SPECIFICATIONS

**Note:** The service manual for RM-717 has been issued separately.

- Television system
  - Canadian TV standards
- Channel coverage
  - VHF channels 2-13
  - UHF channels 14-69
  - Cable TV channels 1-125
- Picture tube
  - Trinitron tube
  - 13-inch picture measured diagonally**
  - 14-inch picture tube measured diagonally
  - 90-degree deflection
- Power requirements
  - 120 V AC, 60 Hz
- Power consumption
  - 97 W
- Accessories supplied
  - VHF/UHF telescopic dipole antenna (1)
  - Antenna connector (1)
  - Remote Commander RM-717 with 2 size AA batteries (1)
- Optional accessory
  - U/V mixer EAC-66

Design and specifications subject to change without notice.



## TRINITRON® COLOR TV

# SONY®




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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

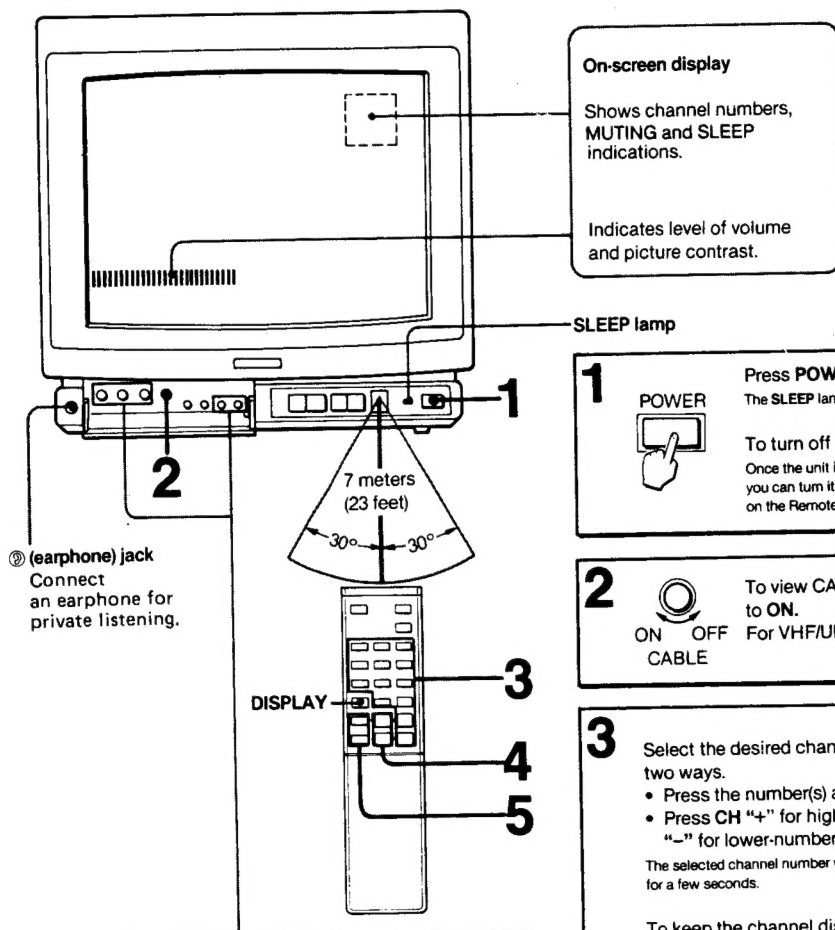


## SECTION 1

### GENERAL

#### 1-1. TV OPERATION

Usually the Remote Commander is all that is needed to operate the TV unit in everyday use.



##### On-screen display

Shows channel numbers, MUTE and SLEEP indications.

Indicates level of volume and picture contrast.

##### SLEEP lamp

**1**

##### POWER



Press **POWER** on the TV.

The **SLEEP** lamp (red) will light up for several seconds.

To turn off the TV completely, press it again. Once the unit is turned on with **POWER** on the TV, you can turn it on and off with **POWER** on the Remote Commander.

**2**



ON OFF  
CABLE

To view CATV programs, set **CABLE** to **ON**.

For VHF/UHF programs, set it to **OFF**.

**3**

Select the desired channel in one of the following two ways.

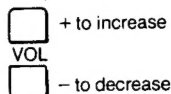
- Press the number(s) and then press **ENTER**.
- Press **CH "+"** for higher-numbered channels or **CH "-"** for lower-numbered channels.

The selected channel number will appear on the screen and remain for a few seconds.

To keep the channel display on the screen, press **DISPLAY**.

To cancel it, press again.

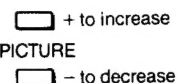
**4**



+ to increase  
VOL  
- to decrease

Press **VOL +/-** to adjust volume.

**5**



+ to increase  
PICTURE  
- to decrease

Adjust picture contrast to your preference, if necessary.

##### Picture adjustments

If any adjustment is necessary, adjust the appropriate control as described below.



HUE

skin tones become purplish

skin tones become greenish



COLOR

for less color intensity

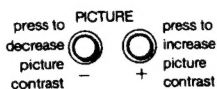
for more color intensity



BRIGHT

for less brightness

for more brightness



PICTURE

press to decrease picture contrast

press to increase picture contrast

- The **CHANNEL** and **VOLUME** buttons on the TV function the same as the **CH** and **VOL** buttons on the Remote Commander respectively.

##### Cable TV channel chart \*

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to this chart.

Number on this TV													1	5	6	14	15	16	17	
Corresponding CATV channel													A-8	A-7	A-6	A	B	C	D	
18	19	20	21	22	23	24	25	26	27	28	29	30								
E	F	G	H	I	J	K	L	M	N	O	P	Q								
31	32	33	34	35	36	37	38	39					93	94						
R	S	T	U	V	W	W+1	W+2	W+3					W+57 W+58							
95	96	97	98	99	100	101	102					123	124	125						
A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61					W+82 W+83 W+84								

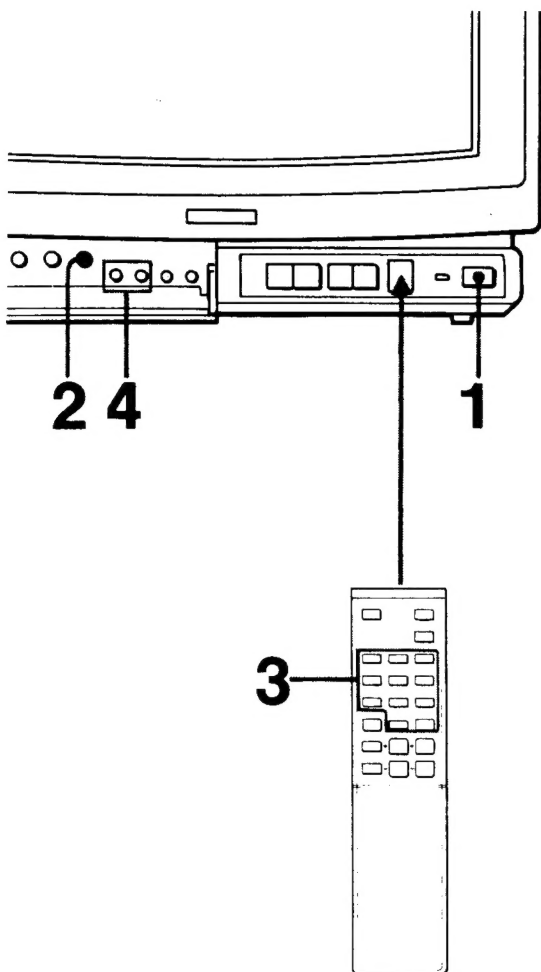
Check with your local cable TV company for more complete information on the available channels.

- \* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

## 1-2. CHANNEL PRESETTING

Receivable channels of your TV are:  
VHF: 2-13 UHF: 14-69 CATV: 1-125

By adding and erasing channels, you can preset your TV so that only the desired channels appear in sequence when the CH "+" or "-" is pressed.



**1** **POWER**  
Press **POWER**.

**2** Set **CABLE** properly according to the channels to be added or erased.  
For CATV channels, set to **ON**.  
For VHF/UHF channels, set to **OFF**.

**3** Press the number(s) of the channel to be added or erased and then press **ENTER**.

Channel number  
**16**

If necessary, press **DISPLAY** to check the channel number.

**4**

ERASE ADD

**ERASING CHANNELS**

Press **ERASE**.  
A "-" indication will appear.

**-16**

**ADDING CHANNELS**

Press **ADD**.  
A "+" indication will appear.

**+16**

When **CH +/-** are pressed, you will see that only the added channels will appear in sequence while the erased channels will be skipped over.

Repeat steps 2 through 4 for other channels.

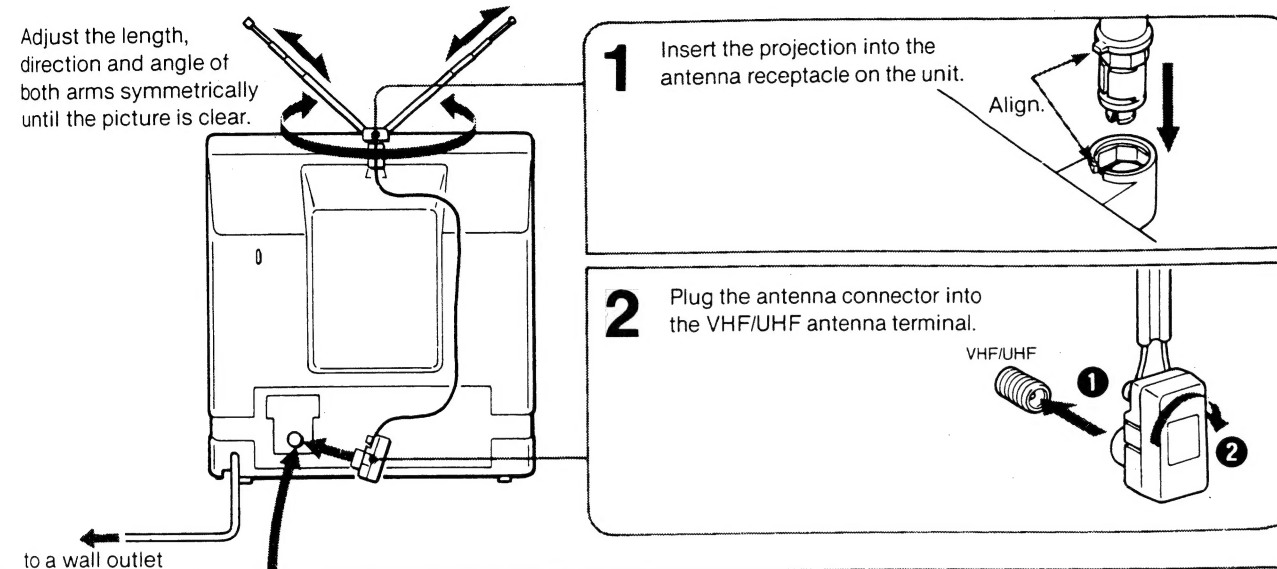
To add erased channels again, follow the steps for **ADDING CHANNELS**.

### Note

When a VHF or UHF channel is erased, the cable TV channel with the same number is also erased and vice versa.

### 1-3. ANTENNA/CABLE CONNECTION INDOOR ANTENNA CONNECTION

For VHF/UHF reception, use the supplied dipole telescopic antenna.



### OUTDOOR ANTENNA/CABLE CONNECTION

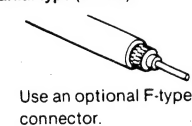
If you cannot obtain satisfactory reception with the dipole antenna, use of an outdoor antenna may be necessary. Cable TV reception is only possible by connecting a cable supplied by your local cable operator.

- 1 Remove the indoor antenna from the antenna terminal of the TV.
- 2 Prepare the antenna or cable end using the appropriate connector, and connect the antenna or cable to the antenna terminal of the TV. (See A or B below.)

#### A Combination VHF/UHF antenna \*, VHF antenna, UHF antenna or CATV cable

Select the proper connector according to the cable type.

When the cable is a 75-ohm coaxial type (round)

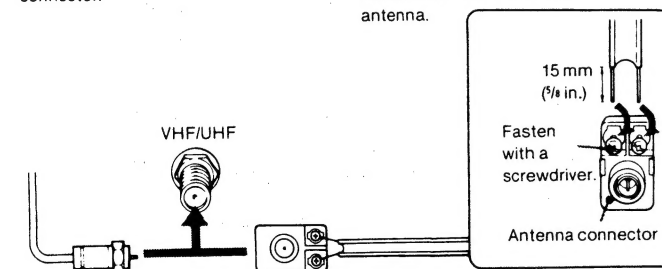


Use an optional F-type connector.

When the cable is a 300-ohm ribbon type lead-in (flat)



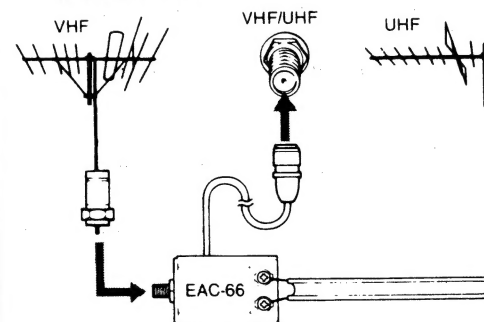
Attach the antenna connector which was fixed to the indoor antenna.



\* Most combination antennas are equipped with a signal splitter. Take off the splitter and attach the proper connector.

#### B When both VHF and UHF antennas are connected

Prepare the VHF antenna end using the appropriate connector as illustrated in A. Attach the optional EAC-66 U/V mixer to the TV antenna terminal, and connect the cables to the U/V mixer.



When the cable is connected to the TV with the U/V mixer, snow and noise may appear in the pictures of the cable TV channels over 37 (W + 1).

#### Note to CATV system installer in the U.S.A.:

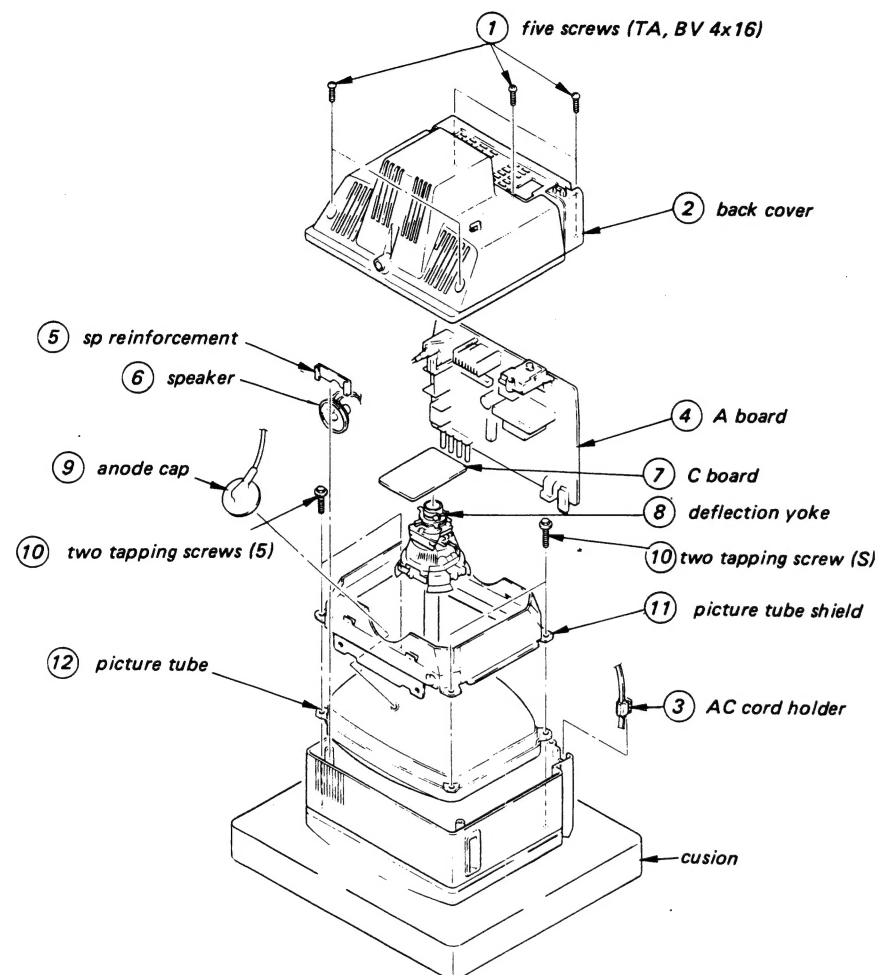
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### MEMO

## SECTION 2 DISASSEMBLY

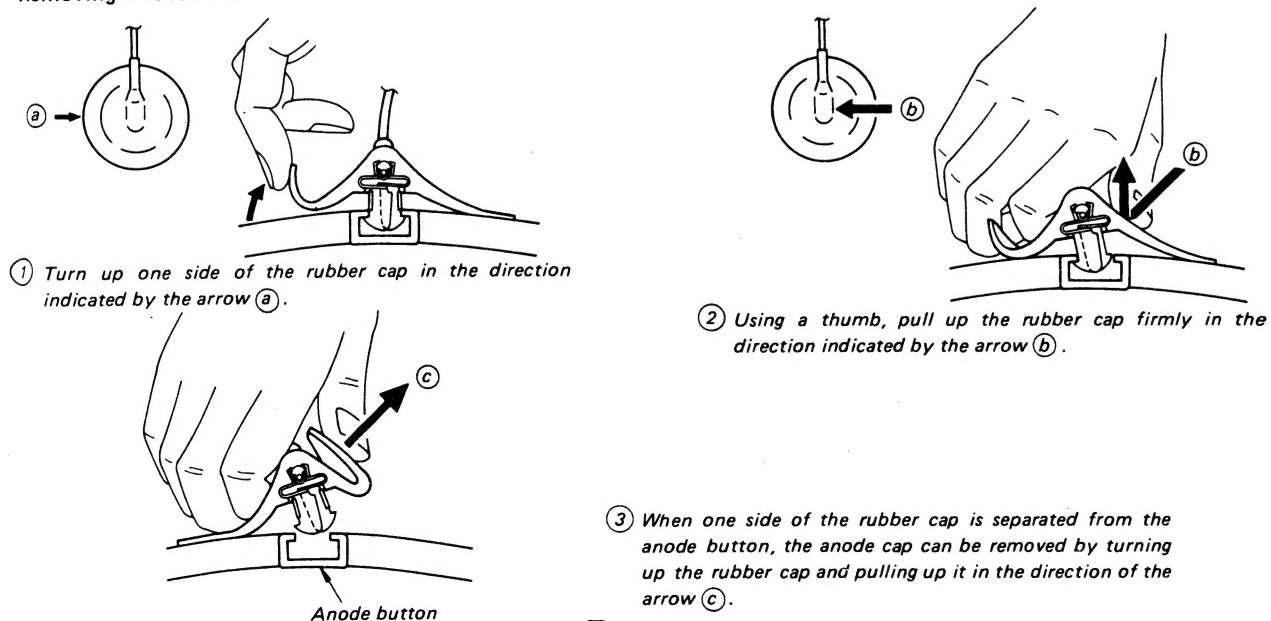
### 2-1. PICTURE TUBE REMOVAL

Note: Follow the disassembly procedure in the numerical order given.



### 2-2. REMOVAL OF ANODE CAP

#### • Removing Procedures



## SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed. These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

(picture) control . . . . . maximum  
(brightness) control . . . . . maximum  
(fully clockwise)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance

Note: Test Equipment Required.

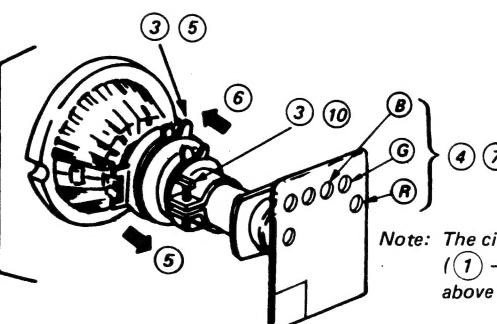
1. Color-bar/Pattern Generator
2. Degausser

### 3-1. BEAM LANDING

#### Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

- 1 Turn on set power supply and receive an all-white signal.
- 2 Evenly degauss the entire screen.
- 3 Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
- 4 Set BKG VR (R) to maximum and set (B) and (G) to minimum.
- 5 Move the deflection yoke back, and adjust the purity control so that (R) is in the center and (G) and (B) are at the sides, evenly. (Figure 3-2.)
- 6 Move the deflection yoke forward so that the entire screen is red.
  - \* If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
- 7 Substitute (G), then (B) for (R) in step 4 and check landing.
- 8 Rotate (R), (G) and (B) once each and check landing.
- 9 When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3, then repeat steps 7 and 8.
- 10 When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.



Note: The circled numbers (1 - 9) show above steps.

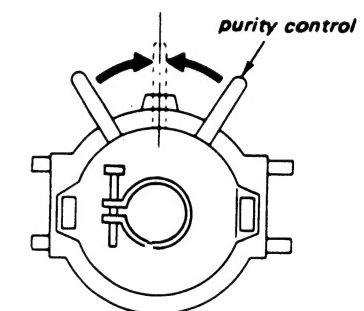


Fig. 3-1

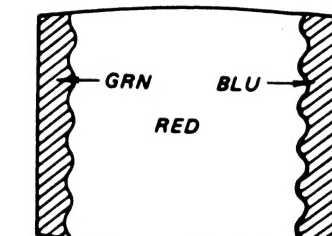


Fig. 3-2

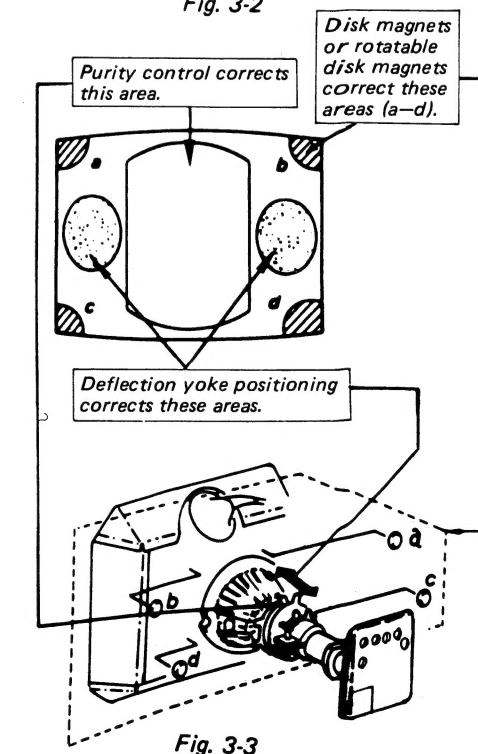
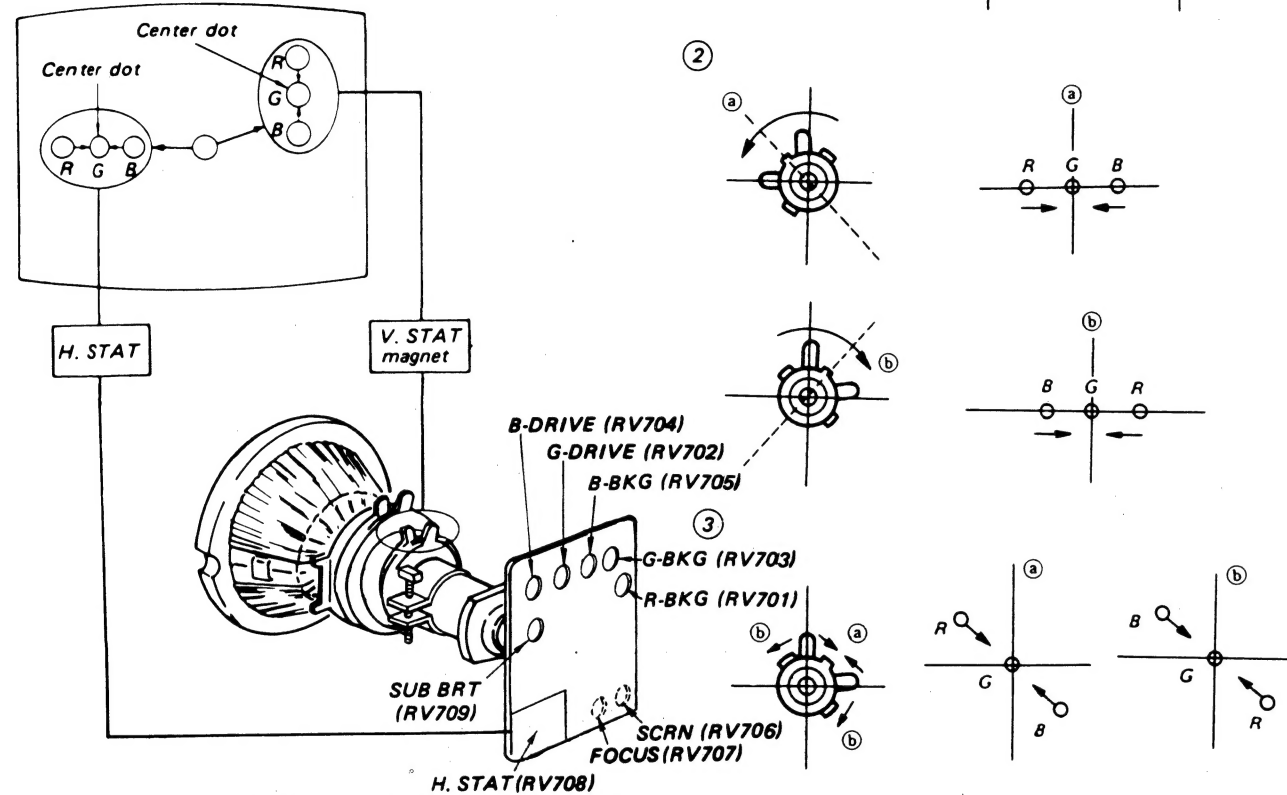


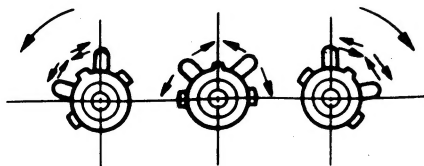
Fig. 3-3

**3-2. CONVERGENCE****Preparation:**

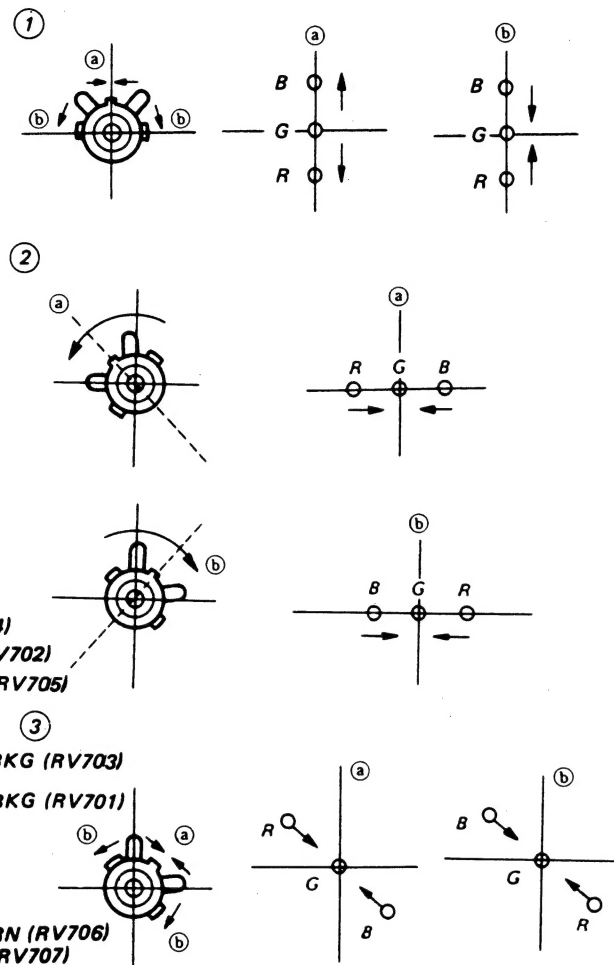
- Before starting this adjustment, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHT control to minimum and PICTURE control mechanical center.
- Feed in a dot pattern.

**(1) Horizontal and Vertical Static Convergence**

1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.

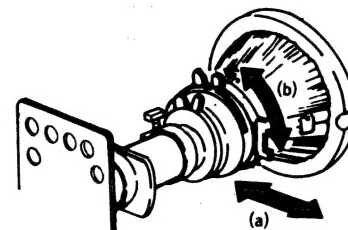


If blue dot does not coincide with red and green dots, perform following steps.

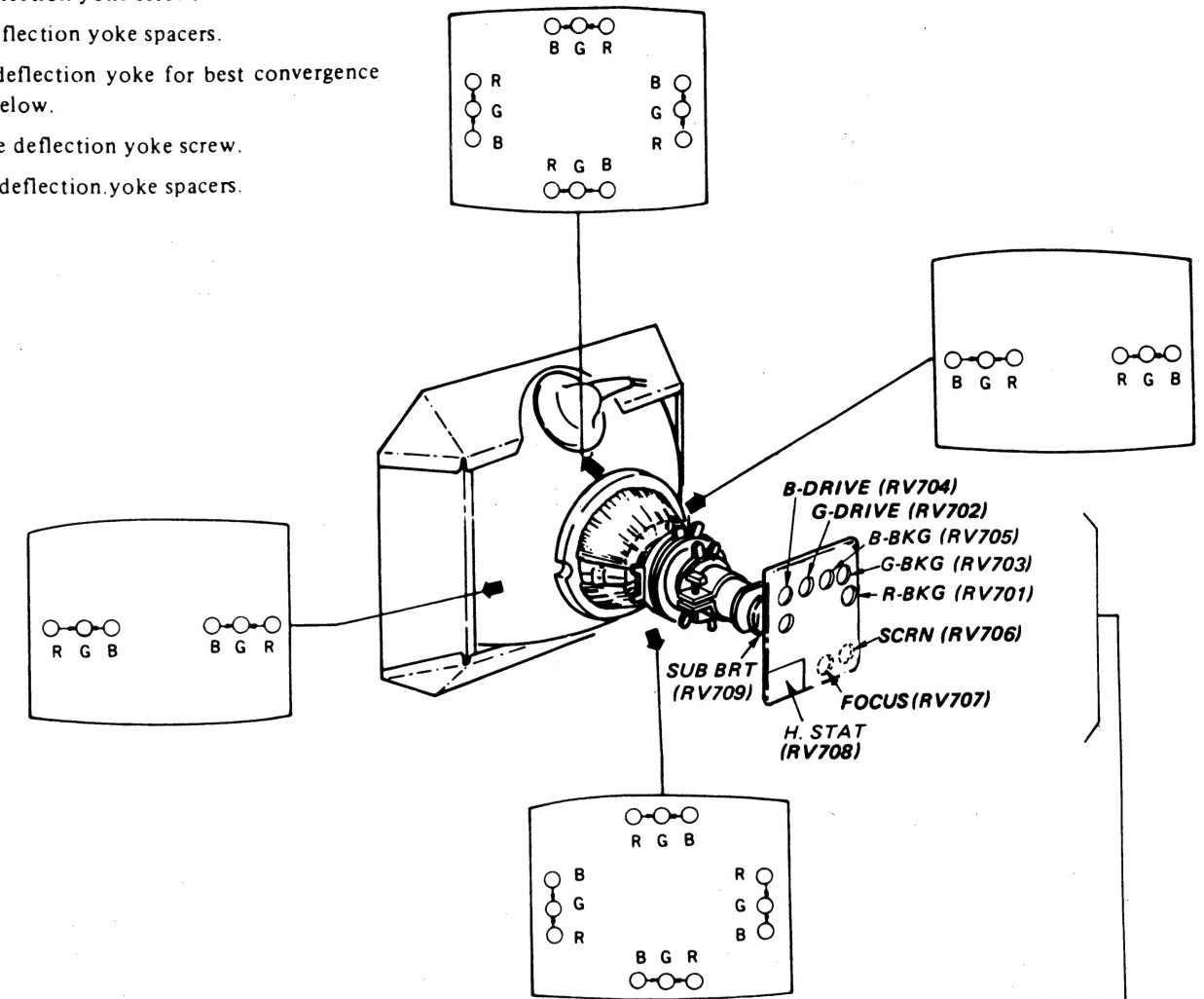
Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

**(2) Dynamic Convergence Adjustment****Preparation:**

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
  2. Remove deflection yoke spacers.
  3. Move the deflection yoke for best convergence as shown below.
  4. Tighten the deflection yoke screw.
  5. Install the deflection yoke spacers.

**3-3. WHITE BALANCE****[SCREEN (G2)]**

1. Input a dots pattern.
2. Set the PICTURE control at minimum and turn the BRIGHT control fully counterclockwise.
3. Confirm that BKG voltage is less than 160V dc when turning RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG).
4. Note the color which becomes visible first when turning RV708.

**[WHITE BALANCE (Cut off)]**

1. Input a all white signal.
2. Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.

3. Turn RV704 (B.DRIVE) and RV702 (G.DRIVE) fully clockwise.
4. Set RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG) to minimum.
5. Turn RV709 (SUB BRT) slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning RV709. Do not turn a BKG control for this color.
6. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
7. Set the PICTURE control fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
8. Repeat steps 1, through 7.

Note: (1)

1.

2.

3.

4.

5.

6.

(2)

W

ba

(3)

Co

w

ot

PI

C

V

B

A

4-1. C B

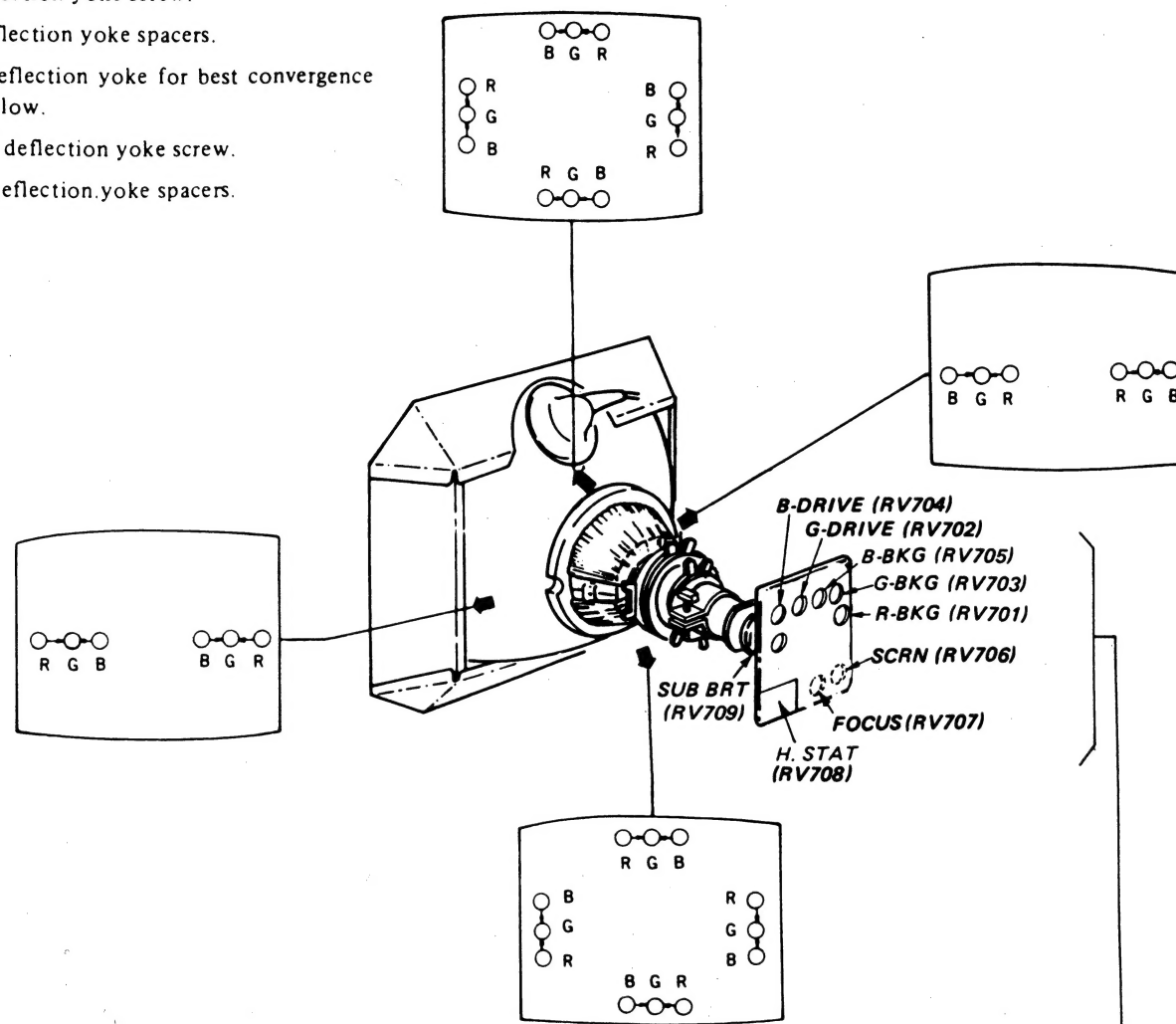
## SECTION 4 CIRCUIT ADJUSTMENTS

### (2) Dynamic Convergence Adjustment

#### Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

- Loosen deflection yoke screw.
- Remove deflection yoke spacers.
- Move the deflection yoke for best convergence as shown below.
- Tighten the deflection yoke screw.
- Install the deflection yoke spacers.



### 3-3. WHITE BALANCE

#### [SCREEN (G<sub>2</sub>)]

- Input a dots pattern.
- Set the PICTURE control at minimum and turn the BRIGHT control fully counterclockwise.
- Confirm that BKG voltage is less than 160V dc when turning RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG).
- Note the color which becomes visible first when turning RV708.

#### [WHITE BALANCE (Cut off)]

- Input a all white signal.
- Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.

- Turn RV704 (B.DRIVE) and RV702 (G.DRIVE) fully clockwise.
- Set RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG) to minimum.
- Turn RV709 (SUB BRT) slowly to obtain a faintly visible cross-hatch.  
Note the color that first becomes visible by turning RV709.  
Do not turn a BKG control for this color.
- Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
- Set the PICTURE control fully clockwise.  
Observe the screen and adjust the DRIVE controls for best white balance.
- Repeat steps 1, through 7.

#### Note: (1) TEST EQUIPMENT REQUIRED

- Oscilloscope
- Digital multimeter
- Color-bar/pattern generator
- Variable auto-transformer
- Isolation transformer
- Regulated-dc power supply

#### (2) INPUT SIGNAL

When making these adjustments, supply a color-bar or an off-air signal.

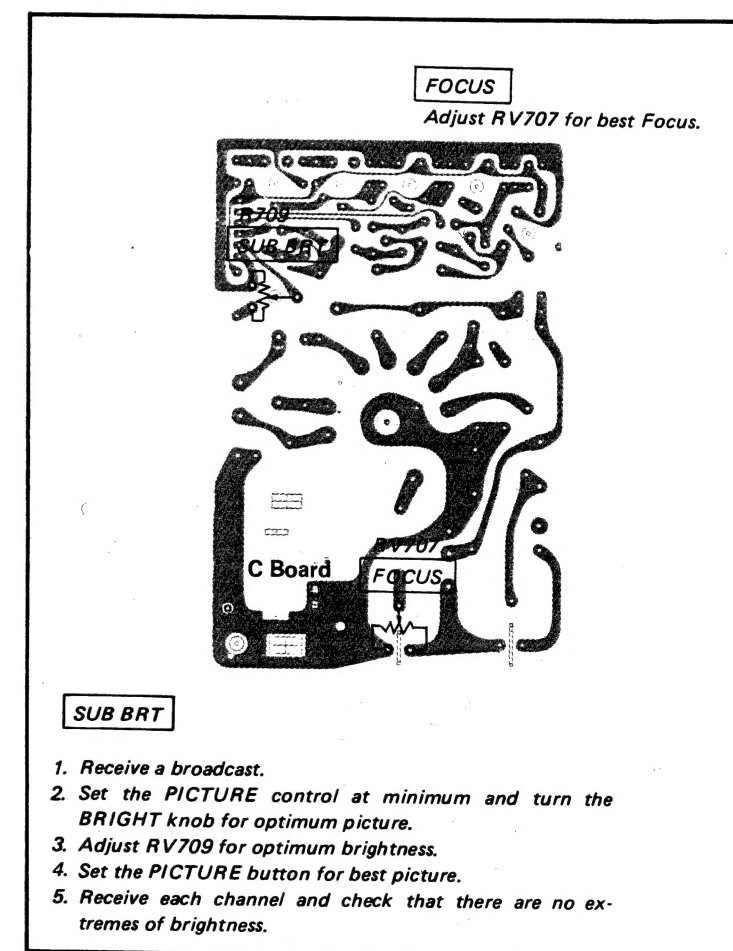
#### (3) CONTROL SETTING

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control } initial setting  
COLOR control }

V. HOLD control ..... set for stable picture  
BRIGHT control ..... set for best picture  
AFT SW ..... ON

### 4-1. C BOARD ADJUSTMENTS

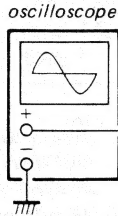
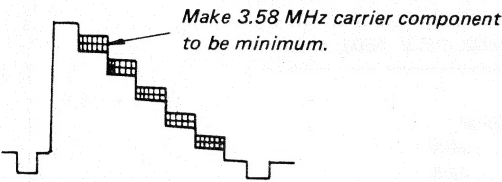




4-2. A BOARD ADJUSTMENTS

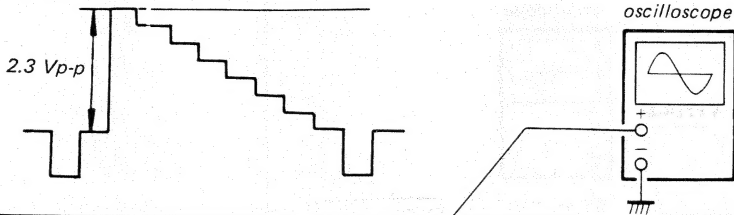
3.58 MHz TRAP

- 1) Receive color bar signal.
- 2) PICTURE VR .....maximum  
BRIGHT VR .....center click  
COLOR VR .....minimum  
HUE VR .....center
- 3) Adjust RV-306 until the 3.58 MHz component in Y out waveform at pin (17) of IC301 becomes a minimum as shown below.



SUB PICTURE

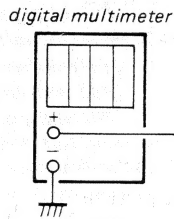
1. Receive color bar signal.
2. PICTURE VR .....maximum  
BRIGHT VR .....center click  
COLOR VR .....minimum  
HUE VR .....center
3. Connect an oscilloscope across pin (17) of IC301.
4. Adjust RV307 to 2.3Vp-p.



Note: RV401, RV402 set to mechanical center.

V BIAS

1. Tune in an off-air signal.
2. Adjust V BIAS VR (RV504) so that voltage of V, deflection yoke connector (granded side) is 12.0 ±0.2V dc.
3. Confirm V-SIZE adjustment.

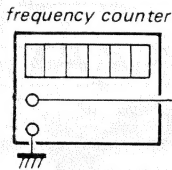


V SIZE

1. Tune in an off-air signal.
2. Adjust V SIZE VR (RV503) for a best vertical size picture.

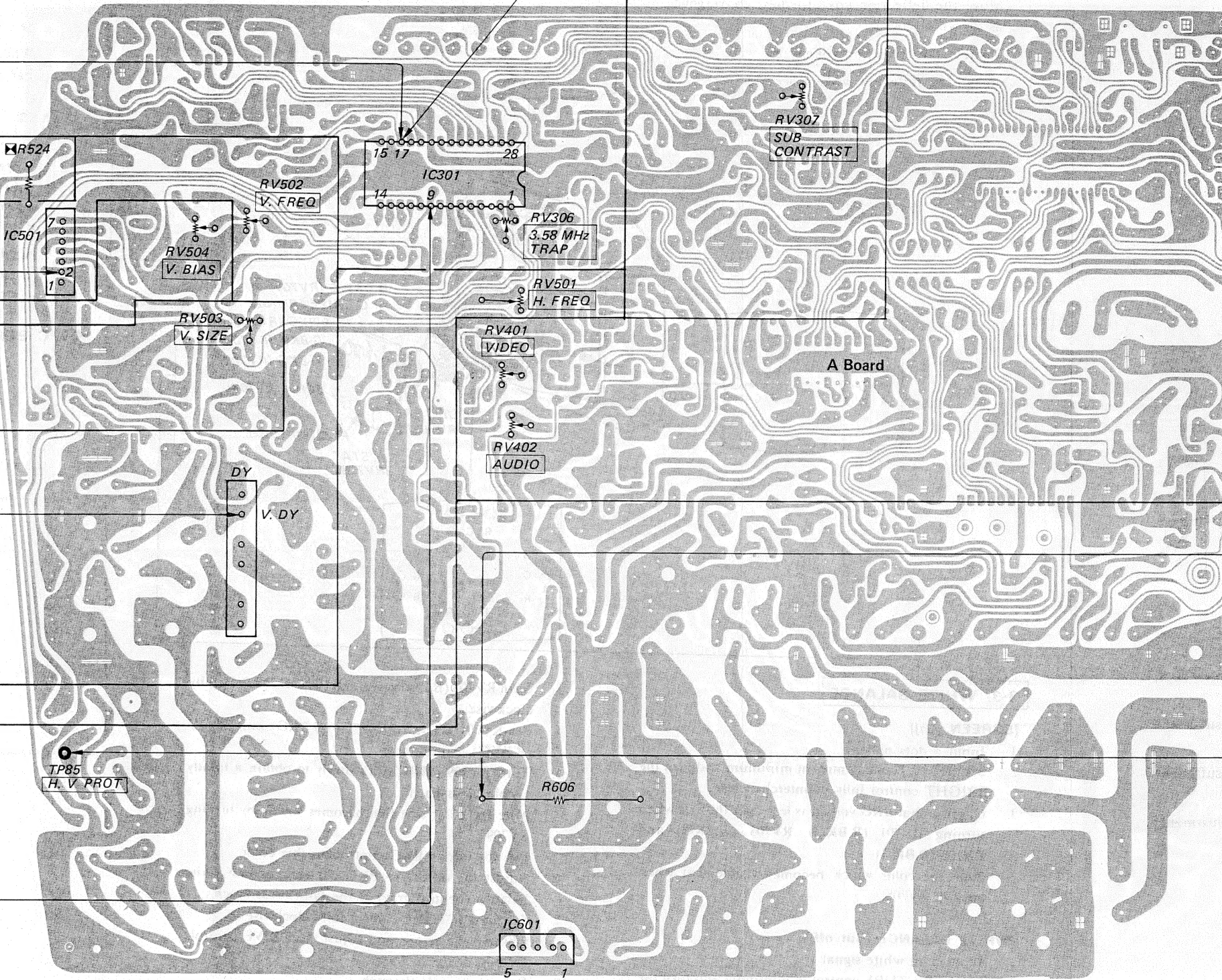
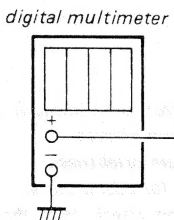
V-FREQUENCY

1. Switch to a channel where no signal is received.
2. Connect a frequency counter across pin (2) of IC501 and ground.
3. Adjust V-FREQUENCY VR (RV502) to obtain 55Hz ± 0.5Hz reading on the frequency counter.



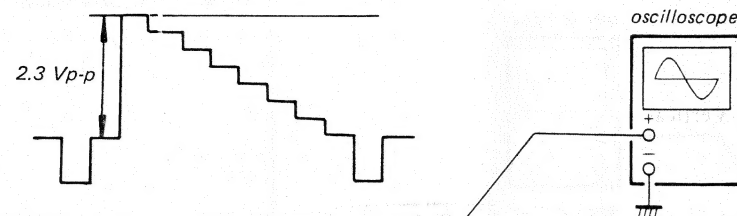
H-FREQUENCY

1. Tune in an off-air signal.
2. Set the PICTURE and BRIGHT control to obtain a suitable picture.
3. Connect an digital multimeter across pin (9) of IC301 and ground.
4. Adjust H-FREQUENCY VR (RV501) to obtain 3.2 ±0.1V dc reading on the digital multimeter.

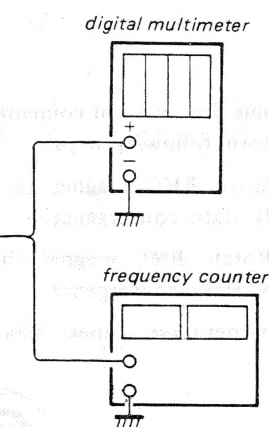
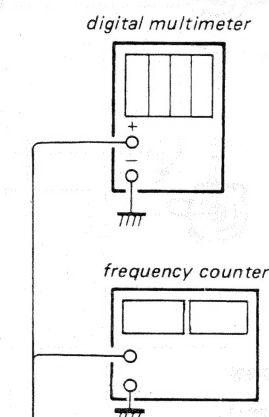
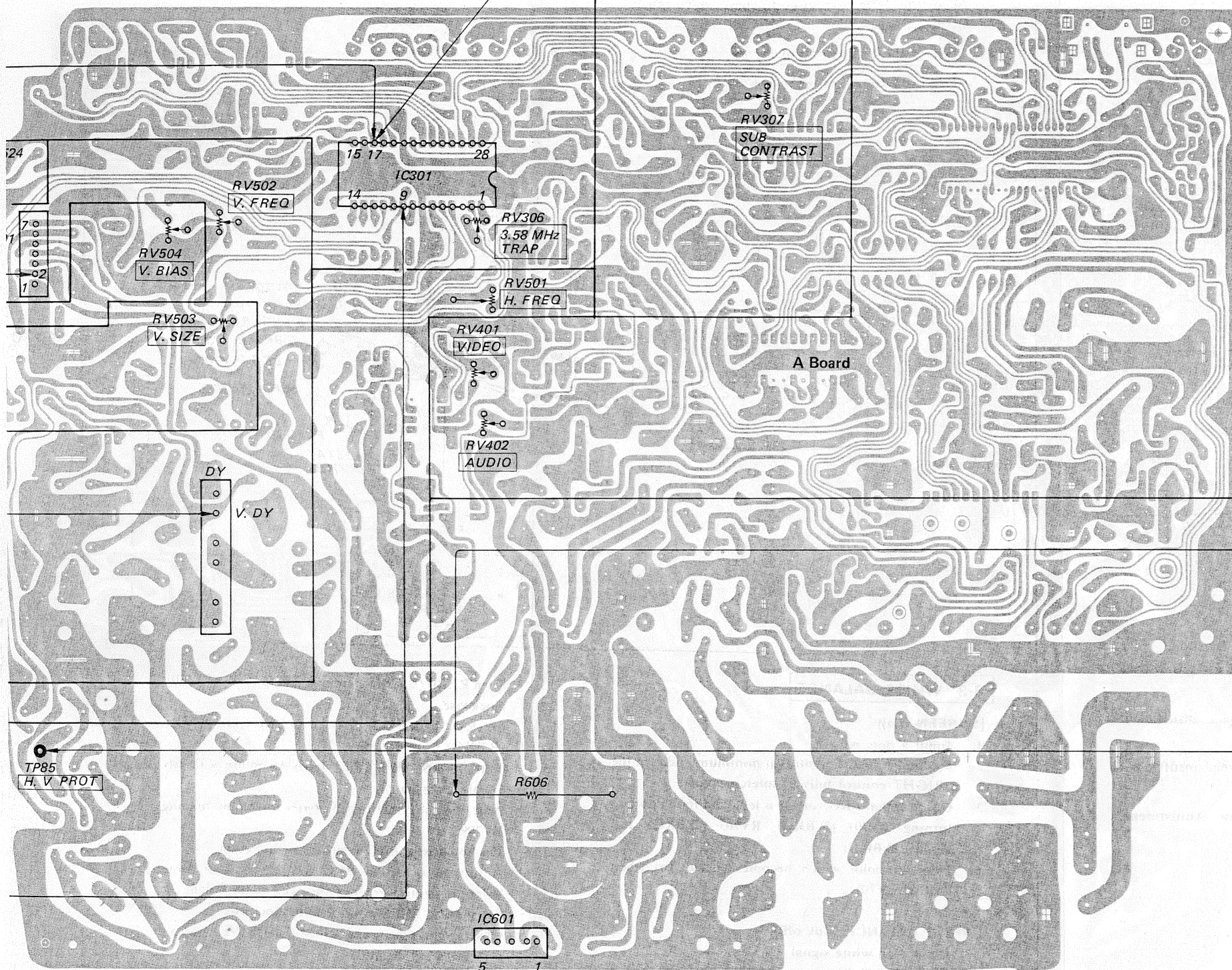




...maximum  
...center click  
...minimum  
...center  
across pin (17) of IC301.  
p-p.






Note: RV401, RV402 set to mechanical center.



### 4-3. SAFETY RELATED ADJUSTMENT

#### R524 ADJUSTMENT (HOLD DOWN)

When replacing the following components (marked with  on the schematic diagram), perform the adjustment as follows.

	R524
	R521, R522, R523, R524, R530, R534, C307, C524, D502, D512, T503, IC301

- 1) Receive the dot signal  
PICTURE VR ..... MIN  
BRIGHT VR ..... MIN
- 2) +B voltage check  
Confirm that the +B voltage 135V LINE is less than 136.2 V dc during input of  $130 \pm 1.0$  V ac.
- 3) Protector voltage check  
Confirm that a voltage of  $20.0 \pm 1.3$  V dc appears between TP85 and ground during input of  $120 \pm 1.0$  V dc between TP85 and ground.
- 4) Operation check  
Confirm that the hold-down circuit operates (the raster disappears) by less than 22.75V dc between TP85 and ground.
- 5) Receive the dot signal.
- 6) Input of  $120 \pm 1.0$  V ac.
- 7) Error operation check  
Confirm that, applying  $139 \pm 0.5$  V dc to +B voltage (135V LINE), the hold-down circuit does not operate when changing the channel.

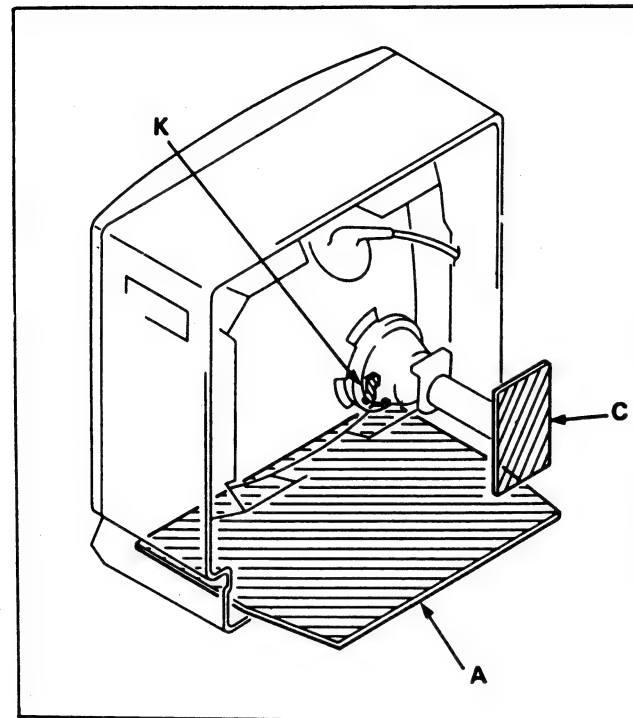
\* Use a digital multimeter whose input impedance is over 100 M $\Omega$  when confirming the voltage of TP85.

#### CHECK AFTER IC601 REPLACEMENT

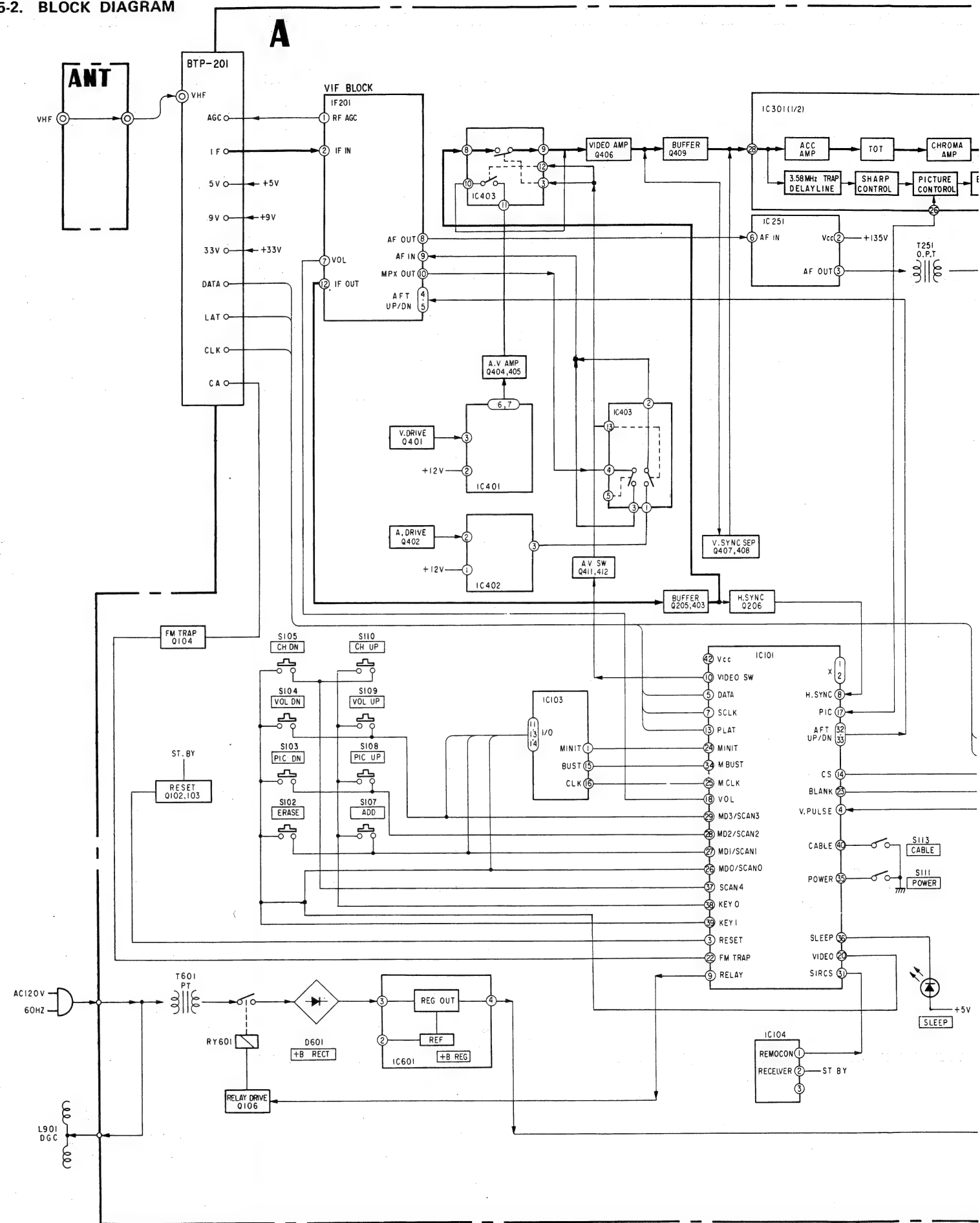
1. Supply  $130 \pm 1.0$  V ac to with variable auto-transformer.
2. Receive the dot signal.
3. PICTURE VR ..... MIN  
BRIGHT VR ..... MIN
4. Confirm that the +B voltage (at TP91) is less than 136.2V dc.
5. If step 4 is not satisfied, replace IC601 in A board and repeat above steps.

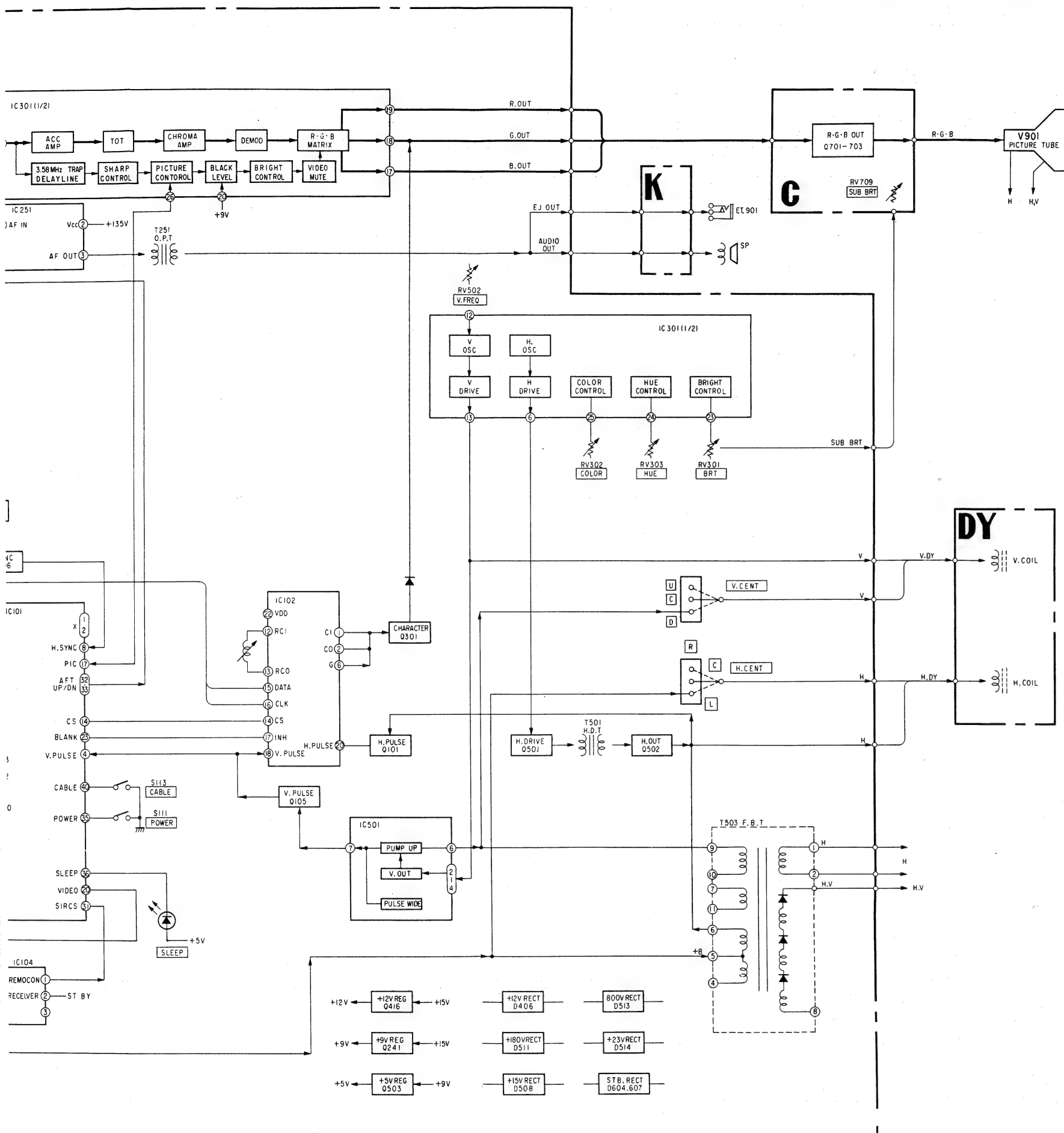
# SECTION 5 DIAGRAMS

## 5-1. CIRCUIT BOARDS LOCATION



## 5-2. BLOCK DIAGRAM

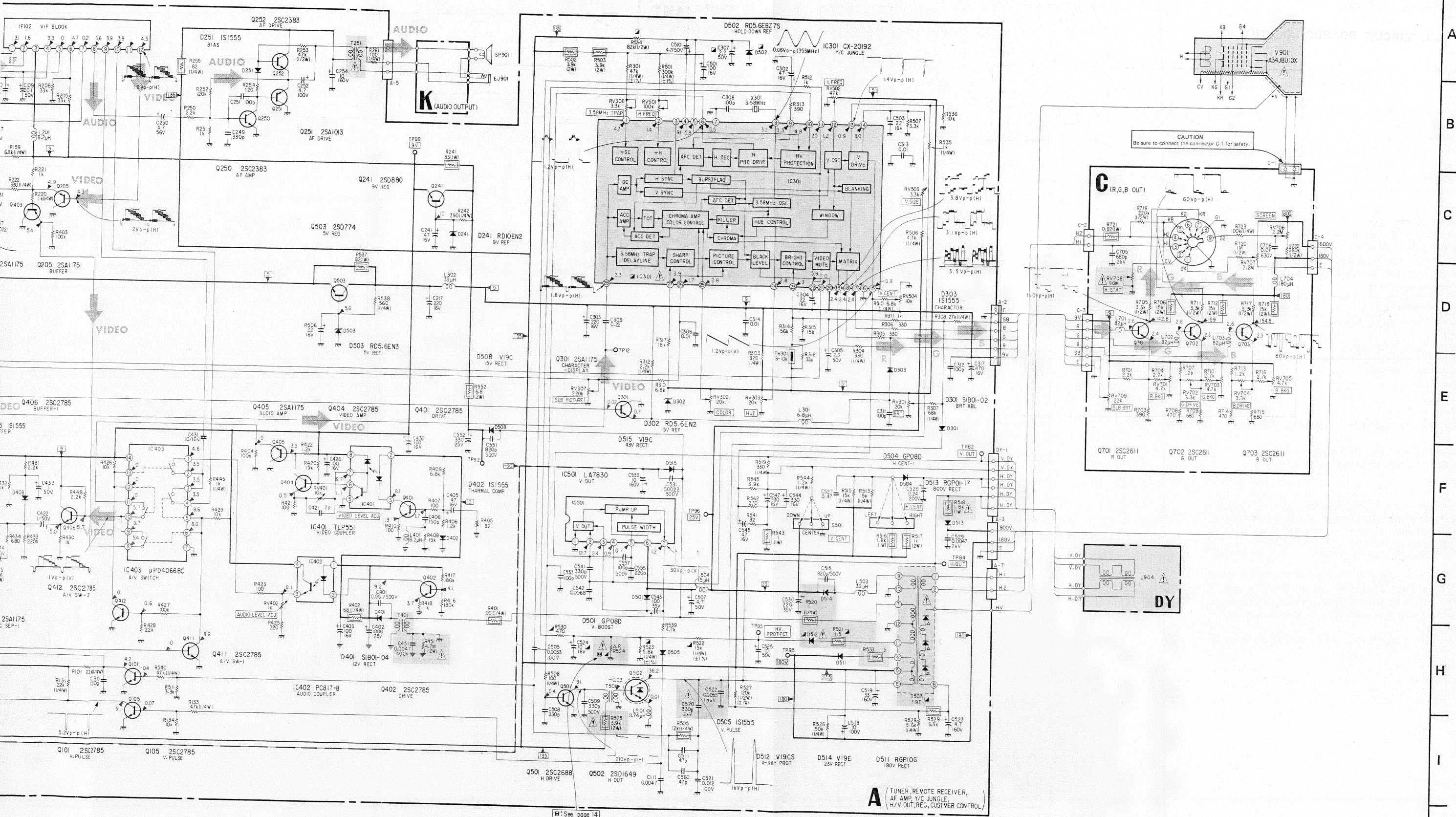














[illegible]

Q	IC	D	ADJ	TP
		108		
	IC104	302		
		109		
		107-105	RV303	
		104	-301	
407				95
408		102		12
301		301		
409	103	303		
	IC103			
	IC101	403		
IC301				
	102			
		606		
105		505	RV502	
101			RV504	
IC501	406	502	RV306	
		501		
	411			
403			RV501	
412				
			RV503	
404				
401, 405				
	IC403			
	IC102			
	206		RV401	
IC401		402		
501			RV402	
		101		
	252	503		
503		241		
	251	251		
241	250			82
402	205			95
IC402				
106				
		504		98
502				
	104	103		
		401		
		602		
		513	607	
		605	604	
		514	515	96
				84
		512		
				85
		511		95
		508		
				92
		612		
		611		
		613		
		614		
IC601				
Q	IC	D	ADJ	TP



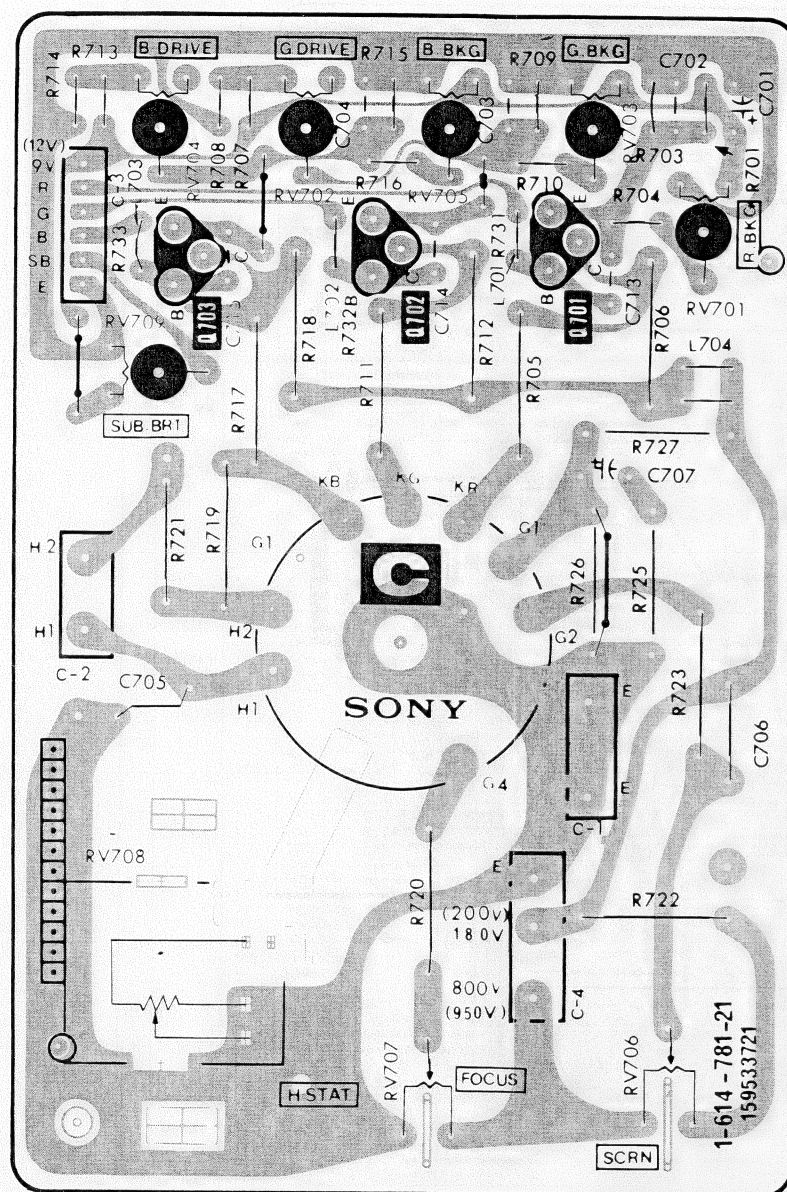
KV-1326R  
RM-717

KV-1326R  
RM-717

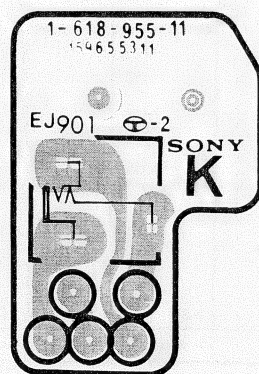
**C** [R.G.B OUT]

**K** [AUDIO OUTPUT]

— C Board —

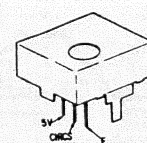


— K Board —

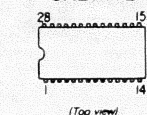


# 5-5. SEMICONDUCTORS

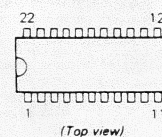
BX-132'



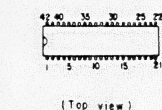
CX20192



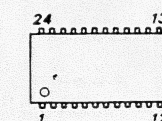
CX7958



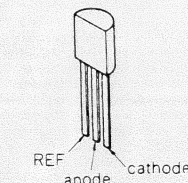
CXQ88535-119S



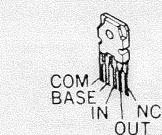
LA7830  
μPD6250C



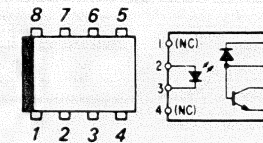
PC817-B



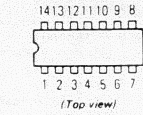
STR30135



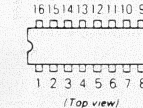
TLP551



μPD40668C



μPD6250C



2SA1013  
2SC2383



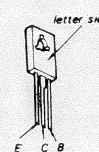
2SA1175-F  
2SC2785-F



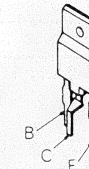
2SC2551



2SC2611  
2SC2688



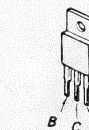
2SD1649-CA



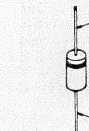
2SD774



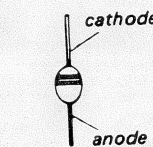
2SD880-GR



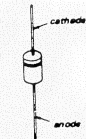
1S1555  
RD3.6E-L1  
RD5.1E-N2  
RD5.6E-BZ7S  
RD5.6E-N2  
RD5.6E-N3  
RD10E-N2  
RD33E-B2



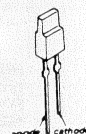
GP08D  
U05G  
V19C  
V19CS  
V19E



SIB01-02  
SIB01-04



SLP161B  
SLP461B





SECTION 6  
EXPLODED VIEW

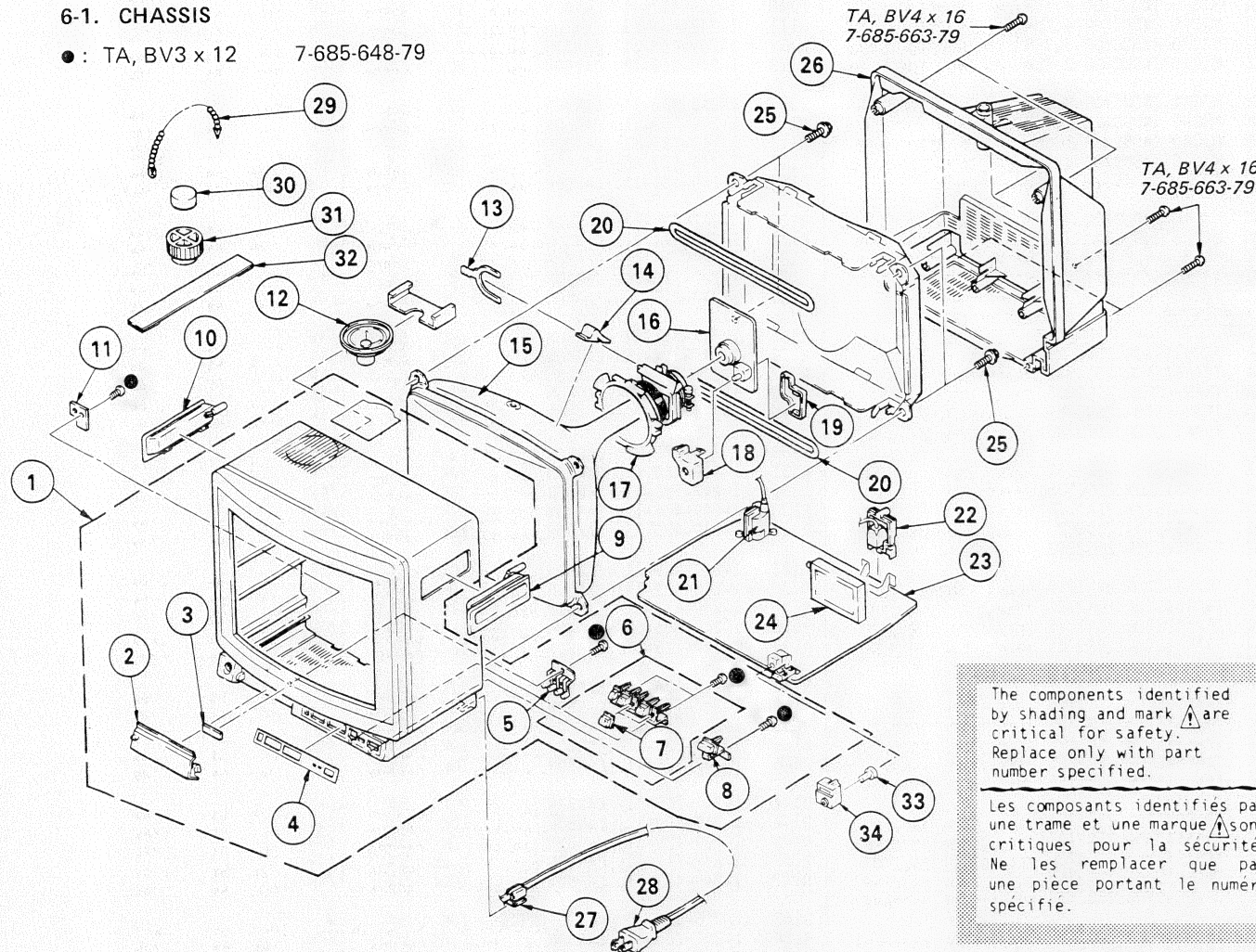
## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## 6-1. CHASSIS

- : TA, BV3 x 12 7-685-648-79



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4376-532-3	BEZEL ASSY	2-8	18	*4-374-912-01	COVER (MAIN), CV VOL	
2	X-4376-531-3	DOOR ASSY, CONTROL		19	*4-374-913-01	COVER (REAR LID), CV VOL	
3	*4-840-002-00	EMBLEM, SONY		20	$\Delta$ 1-426-146-31	COIL, DEMAGNETIZATION	
4	4-382-544-11	WINDOW, TUNING		21	$\Delta$ 1-439-314-22	TRANSFORMER ASSY, FLYBACK	
5	4-374-950-01	PUSH BUTTON		22	$\Delta$ 1-537-039-11	TERMINAL BOARD ASSY, ANTENNA	
6	X-4376-530-2	BUTTON ASSY		23	A-1296-308-A	A BOARD, COMPLETE	
7	4-374-926-41	PUSH BUTTON		24	$\Delta$ 1-463-603-11	TUNER, ET (BTP-201)	
8	4-374-953-21	BUTTON, POWER		25	4-365-808-00	SCREW (5), TAPPING	
9	4-374-920-81	HANDLE (RIGHT)		26	4-382-530-21	COVER, BACK	
10	4-374-921-91	HANDLE (LEFT)		27	$\Delta$ 4-022-115-01	HOLDER, AC CORD	
11	*1-618-955-11	K BOARD		28	$\Delta$ 1-551-603-11	CORD, POWER	
12	1-503-344-21	SPEAKER		29	4-308-870-00	CLIP, LEAD WIRE	
13	1-452-277-00	MAGNET, BMC		30	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
14	3-703-961-01	SPACER, DY		31	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
15	$\Delta$ 8-735-553-05	CRT (A34JB10X)		32	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
16	A-1330-601-A	C BOARD, COMPLETE		33	*4-374-987-01	GUIDE, LIGHT	
17	$\Delta$ 1-451-234-12	DEFLECTION YOKE (SY-125A)		34	*4-374-988-01	BRACKET, LIGHT GUIDE	

SECTION 7  
ELECTRICAL PARTS LIST

A

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

## RESISTORS

- All resistors are in ohms
- F : nonflammable

## COILS

- MMH : mH, UH :  $\mu$ H

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- The components identified by  $\boxtimes$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

## CAPACITORS

- MF :  $\mu$ F, PF :  $\mu$ PF

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1296-308-A	A BOARD, COMPLETE *****		C135	1-102-108-00	CERAMIC 150PF	10% 50V
	*1-535-084-00	1P TERMINAL PIN		C136	1-101-004-00	CERAMIC 0.01MF	50V
	3-701-833-01	HEAD, WASHER, TAPPING SCREW		C137	1-123-333-00	ELECT 100MF	20% 16V
	3-701-833-01	HEAD, WASHER, TAPPING SCREW		C138	1-161-271-00	CERAMIC 100PF	5% 50V
	*4-363-404-00	HOLDER, IC		C139	1-101-004-00	CERAMIC 0.01MF	50V
	4-365-216-00	SPACER, MICA		C140	1-123-333-00	ELECT 100MF	20% 16V
	*4-374-931-01	HOLDER, L.E.D		C141	1-102-074-00	CERAMIC 0.001MF	10% 50V
	*4-374-932-01	COVER, L.E.D		C143	1-101-004-00	CERAMIC 0.01MF	50V
				C144	1-123-332-00	ELECT 47MF	20% 16V
				C199	1-123-356-00	ELECT 10MF	20% 50V
				C217	1-123-321-00	ELECT 220MF	20% 16V
				C231	1-123-380-00	ELECT 1MF	20% 50V
				C241	1-123-332-00	ELECT 47MF	20% 16V
				C249	1-162-288-31	CERAMIC 330PF	10% 50V
				C250	1-123-369-00	ELECT 4.7MF	20% 50V
				C251	1-162-117-00	CERAMIC 100PF	10% 500V
				C252	1-123-383-00	ELECT 4.7MF	20% 100V
				C254	1-123-933-00	ELECT 10MF	20% 160V
				C257	1-102-121-00	CERAMIC 0.0022MF	10% 50V
				C258	1-108-794-91	MYLAR 0.0015MF	5% 50V
				C302	1-123-332-00	ELECT 47MF	20% 16V
				C303	1-123-321-00	ELECT 220MF	20% 16V
				C304	1-123-330-00	ELECT 22MF	20% 16V
				C305	1-123-381-00	ELECT 2.2MF	20% 50V
				C306	1-101-004-00	CERAMIC 0.01MF	50V
				C307	1-123-381-00	ELECT 2.2MF	20% 50V
				C308	1-102-973-00	CERAMIC 100PF	10% 50V
				C309	1-136-169-00	FILM 0.22MF	5% 50V
				C311	1-102-106-00	CERAMIC 100PF	10% 50V
				C312	1-102-106-00	CERAMIC 100PF	10% 50V
				C313	1-101-004-00	CERAMIC 0.01MF	50V
				C314	1-101-004-00	CERAMIC 0.01MF	50V
				C317	1-123-323-00	ELECT 470MF	20% 16V
				C401	1-162-318-11	CERAMIC 0.001MF	10% 500V
				C402	1-124-557-11	ELECT 1000MF	20% 25V
				C403	1-123-333-00	ELECT 100MF	20% 16V
				C405	1-123-332-00	ELECT 47MF	20% 16V
				C406	1-162-284-31	CERAMIC 150PF	10% 50V
				C421	1-102-939-61	CERAMIC 2PF	0.5PF 50V
				C422	1-123-380-00	ELECT 1MF	20% 50V
				C424	1-123-380-00	ELECT 1MF	20% 50V
				C425	1-108-597-00	MYLAR 0.056MF	5% 50V
				C426	1-123-333-00	ELECT 100MF	20% 16V
				C427	1-123-356-00	ELECT 10MF	20% 16V
				C430	1-123-333-00	ELECT 100MF	20% 16V
				C431	1-124-645-11	ELECT 10MF	20% 16V
				C433	1-123-380-00	ELECT 1MF	20% 50V
				C451	$\Delta$ 1-161-953-51	CERAMIC 0.0047MF	20% 400V
				C501	1-123-333-00	ELECT 100MF	20% 16V
				C503	1-123-330-00	ELECT 22MF	20% 16V
				C505	1-106-184-00	MYLAR 0.0033MF	10% 100V
				C506	1-123-330-00	ELECT 22MF	20% 16V
				C507	1-123-369-00	ELECT 4.7MF	20% 50V
				C101	1-102-976-00	CERAMIC 180PF	10% 50V
				C102	1-102-976-00	CERAMIC 180PF	10% 50V
				C103	1-123-330-00	ELECT 22MF	20% 16V
				C105	1-101-884-00	CERAMIC 56PF	10% 50V
				C106	1-101-880-00	CERAMIC 47PF	10% 50V
				C107	1-123-307-00	ELECT 100MF	20% 10V
				C108	1-123-379-00	ELECT 0.47MF	20% 50V
				C109	1-123-586-00	ELECT 0.1MF	20% 50V
				C110	1-123-586-00	ELECT 0.1MF	20% 50V
				C111	1-102-125-00	CERAMIC 0.0047MF	10% 50V
				C112	1-123-318-00	ELECT 33MF	20% 16V
				C113	1-102-976-00	CERAMIC 180PF	10% 50V
				C114	1-102-973-00	CERAMIC 100PF	10% 50V
				C115	1-102-983-00	CERAMIC 220PF	10% 50V
				C116	1-123-369-00	ELECT 4.7MF	20% 50V
				C117	1-123-381-00	ELECT 2.2MF	20% 50V
				C118	1-123-318-00	ELECT 33MF	20% 16V
				C119	1-101-004-00	CERAMIC 0.01MF	50V
				C120	1-102-112-00	CERAMIC 330PF	10% 50V
				C121	1-102-112-00	CERAMIC 330PF	10% 50V
				C122	1-123-318-00	ELECT 33MF	20% 16V
				C123	1-101-880-00	CERAMIC 47PF	10% 50V
				C125	1-102-125-00	CERAMIC 0.0047MF	10% 50V
				C126	1-123-369-00	ELECT 4.7MF	20% 50V
				C127	1-102-121-00	CERAMIC 0.0022MF	10% 50V
				C128	1-123-333-00	ELECT 100MF	20% 16V
				C129	1-123-324-00	ELECT 1000MF	20% 16V
				C130	1-123-356-00	ELECT 10MF	20% 16V
				C132	1-102-983-00	CERAMIC 220PF	10% 50V
				C133	1-102-121-00	CERAMIC 0.0022MF	10% 50V



A

A

Ref.No.	Part No.	Description	Remark
C508	1-102-112-00	CERAMIC 330PF 10% 50V	
C509	1-102-030-00	CERAMIC 330PF 10% 500V	
C510	1-123-369-00	ELECT 4.7MF 20% 50V	
C511	1-161-267-00	CERAMIC 47PF 5% 50V	
C515	1-102-212-00	CERAMIC 820PF 10% 500V	
C518	1-123-384-00	ELECT 10MF 20% 100V	
C519	1-123-024-00	ELECT 33MF 160V	
C520	1-162-115-51	CERAMIC 330PF 10% 2KV	
C521	1-106-369-00	MYLAR 0.012MF 10% 100V	
C522	1-136-063-11	FILM 0.0055MF 3% 1.4KV	
C523	1-123-932-00	ELECT 4.7MF 20% 160V	
C524	1-123-356-00	ELECT 10MF 20% 16V	
C525	1-123-356-00	ELECT 10MF 20% 50V	
C527	1-136-173-00	FILM 0.47MF 5% 50V	
C528	1-136-136-00	FILM 0.24MF 5% 200V	
C529	1-102-223-00	CERAMIC 0.0047MF 10% 2KV	
C530	1-124-484-11	ELECT 220MF 20% 35V	
C531	1-101-821-00	CERAMIC 0.0022MF 500V	
C533	1-123-933-00	ELECT 10MF 20% 160V	
C541	1-102-030-00	CERAMIC 330PF 10% 500V	
C542	1-108-835-00	MYLAR 0.0068MF 10% 50V	
C543	1-123-345-00	ELECT 100MF 20% 35V	
C544	1-123-322-00	ELECT 330MF 20% 16V	
C545	1-123-332-00	ELECT 47MF 20% 16V	
C547	1-123-322-00	ELECT 330MF 20% 16V	
C551	1-102-212-00	CERAMIC 820PF 10% 500V	
C552	1-123-335-00	ELECT 330MF 20% 25V	
C553	1-102-106-00	CERAMIC 100PF 10% 50V	
C555	1-102-983-00	CERAMIC 220PF 10% 50V	
C557	1-101-810-00	CERAMIC 100PF 5% 500V	
C560	1-161-267-00	CERAMIC 47PF 5% 50V	
C601	1-130-682-51	FILM 0.22MF 20% 125V	
C602	1-124-959-11	ELECT 330MF 20% 200V	
C603	1-123-933-00	ELECT 10MF 20% 160V	
C608	1-161-830-00	CERAMIC 0.0047MF 500V	
C614	1-123-948-00	ELECT 22MF 20% 250V	
C615	1-161-830-00	CERAMIC 0.0047MF 500V	
C616	1-123-307-00	ELECT 100MF 20% 10V	

## DIODE


D101	8-719-815-55	DIODE 1S1555
D102	8-719-101-39	DIODE RD3.6E-L2
D103	8-719-101-04	DIODE RD33E-B2
D104	8-719-815-55	DIODE 1S1555
D105	8-719-815-55	DIODE 1S1555
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
D108	8-719-901-96	DIODE SLP1618
D110	8-719-815-55	DIODE 1S1555
D241	8-719-102-90	DIODE RD10E-N2
D251	8-719-815-55	DIODE 1S1555
D301	8-719-200-02	DIODE 10E2
D302	8-719-102-71	DIODE RD5.6E-N2


Ref.No.	Part No.	Description	Remark
D303	8-719-815-55	DIODE 1S1555	
D401	8-719-924-06	DIODE ERC24-06S	
D402	8-719-815-55	DIODE 1S1555	
D403	8-719-815-55	DIODE 1S1555	
D501	8-719-911-55	DIODE U05G	
D502	8-719-100-35	DIODE RD5.6E-B2	
D503	8-719-102-71	DIODE RD5.6E-N2	
D504	8-719-911-55	DIODE U05G	
D505	8-719-815-55	DIODE 1S1555	
D508	8-719-918-77	DIODE V19G	
D511	8-719-924-06	DIODE ERC24-06S	
D512	8-719-901-94	DIODE V19CS	
D513	8-719-300-65	DIODE ES1F	
D514	8-719-901-93	DIODE V19E	
D515	8-719-918-77	DIODE V19G	
D602	8-719-924-06	DIODE ERC24-06S	
D604	8-719-911-55	DIODE U05G	
D605	8-719-200-02	DIODE 10E2	
D606	8-719-102-68	DIODE RD5.1E-N2	
D607	8-719-911-55	DIODE U05G	
D611	8-719-801-71	DIODE TVR4J-TPA2	
D612	8-719-801-71	DIODE TVR4J-TPA2	
D613	8-719-801-71	DIODE TVR4J-TPA2	
D614	8-719-801-71	DIODE TVR4J-TPA2	
FUSE			
F601	1-532-509-00	FUSE, GLASS TUBE 6.3A/125V	
	1-533-127-00	FUSE C.I.P.; F601	
F602	1-532-740-11	FUSE, GLASS TUBE 1A/125V	
	*1-533-146-00	HOLDER, FUSE; F602	
IC			
IC101	8-759-918-29	IC CXQ88535-119S	
IC102	8-759-909-50	IC CX-7958	
IC103	8-759-102-12	IC UPD6250C	
IC104	8-741-132-30	IC BX-1323	
IC301	8-752-019-20	IC CX20192	
IC401	8-719-800-43	DIODE TLP551	
IC402	8-719-936-96	PC817-B	
IC403	8-759-140-66	IC UPD4066BC	
IC501	8-759-801-98	IC LA7830	
IC601	8-749-901-35	IC STR30135	
IF BLOCK			
IF201	1-464-478-11	IF BLOCK (IFB-450)	
COIL			
L101	1-407-717-00	MICRO INDUCTOR 1MMH	
L102	1-404-538-11	COIL	
L103	1-408-420-00	MICRO INDUCTOR 82UH	
L104	1-408-877-00	MICRO INDUCTOR 0.22UH	
L105	1-410-326-11	MICRO INDUCTOR 6.8UH	
L106	1-410-324-11	MICRO INDUCTOR 4.7UH	


Ref.No.	Part No.	Description	Remark
L107	1-410-324-11	MICRO INDUCTOR 4.7UH	
L108	1-410-324-11	MICRO INDUCTOR 4.7UH	
L109	1-410-324-11	MICRO INDUCTOR 4.7UH	
L110	1-410-322-11	MICRO INDUCTOR 3.3UH	
L111	1-410-322-11	MICRO INDUCTOR 3.3UH	
L201	1-408-441-31	MICRO INDUCTOR 8.2UH	
L301	1-408-407-00	MICRO INDUCTOR 6.8UH	
L302	1-408-415-00	MICRO INDUCTOR 33UH	
L401	1-408-441-31	MICRO INDUCTOR 8.2UH	
L501	1-407-365-00	COIL, CHOKE	
L503	1-407-699-00	MICRO INDUCTOR 33UH	
L504	1-407-695-00	MICRO INDUCTOR 15UH	
L601	1-408-225-11	MICRO INDUCTOR 3.3UH	
L602	1-408-225-11	MICRO INDUCTOR 3.3UH	


## TRANSISTOR

Q101	8-729-178-54	TRANSISTOR	2SC2785
Q102	8-729-117-54	TRANSISTOR	2SA1175
Q103	8-729-178-54	TRANSISTOR	2SC2785
Q104	8-729-178-54	TRANSISTOR	2SC2785
Q105	8-729-178-54	TRANSISTOR	2SC2785
Q106	8-729-255-12	TRANSISTOR	2SC2551
Q205	8-729-117-54	TRANSISTOR	2SA1175
Q206	8-729-117-54	TRANSISTOR	2SA1175
Q241	8-729-288-02	TRANSISTOR	2SD880
Q250	8-729-238-32	TRANSISTOR	2SC2383
Q251	8-729-201-32	TRANSISTOR	2SA1013
Q252	8-729-238-32	TRANSISTOR	2SC2383
Q301	8-729-117-54	TRANSISTOR	2SA1175
Q401	8-729-178-54	TRANSISTOR	2SC2785
Q402	8-729-178-54	TRANSISTOR	2SC2785
Q403	8-729-117-54	TRANSISTOR	2SA1175
Q404	8-729-178-54	TRANSISTOR	2SC2785
Q405	8-729-117-54	TRANSISTOR	2SA1175
Q406	8-729-178-54	TRANSISTOR	2SC2785
Q407	8-729-117-54	TRANSISTOR	2SA1175
Q408	8-729-178-54	TRANSISTOR	2SC2785
Q409	8-729-178-54	TRANSISTOR	2SC2785
Q411	8-729-178-54	TRANSISTOR	2SC2785
Q412	8-729-178-54	TRANSISTOR	2SC2785
Q501	8-729-168-82	TRANSISTOR	2SC2688
Q502	8-729-802-50	TRANSISTOR	2SD1649-CA
Q503	8-729-177-43	TRANSISTOR	2SD774
<u>RESISTOR</u>			
R101	1-249-462-11	CARBON	22K
R102	1-249-414-11	CARBON	560
R103	1-247-717-11	CARBON	2.2K
R104	1-247-717-11	CARBON	2.2K
R105	1-249-462-11	CARBON	22K
R106	1-249-405-11	CARBON	100
R107	1-247-713-11	CARBON	1K
R108	1-247-713-11	CARBON	1K

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R169	1-247-713-11	CARBON	1K 5% 1/4W	R423	1-249-405-11	CARBON	100 5% 1/6W
R170	1-249-417-11	CARBON	1K 5% 1/6W	R425	1-249-409-11	CARBON	220 5% 1/6W
R171	1-249-417-11	CARBON	1K 5% 1/6W	R426	1-249-429-11	CARBON	10K 5% 1/6W
R205	1-249-435-11	CARBON	33K 5% 1/6W	R427	1-249-441-11	CARBON	100K 5% 1/6W
R208	1-249-435-11	CARBON	33K 5% 1/6W	R428	1-249-433-11	CARBON	22K 5% 1/6W
R220	1-247-713-11	CARBON	1K 5% 1/4W	R429	1-249-429-11	CARBON	10K 5% 1/6W
R221	1-249-417-11	CARBON	1K 5% 1/6W	R430	1-249-417-11	CARBON	1K 5% 1/6W
R222	1-247-706-11	CARBON	330 5% 1/4W	R431	1-249-421-11	CARBON	2.2K 5% 1/6W
R223	1-249-440-11	CARBON	82K 5% 1/6W	R432	1-249-417-11	CARBON	1K 5% 1/6W
R224	1-215-481-00	CARBON	330K 5% 1/6W	R433	1-215-477-00	CARBON	220K 5% 1/6W
R226	1-249-429-11	CARBON	10K 5% 1/6W	R434	1-249-415-11	CARBON	680 5% 1/6W
R227	1-247-717-11	CARBON	2.2K 5% 1/4W	R435	1-202-730-00	SOL ID	8.2M 10% 1/2W
R228	1-249-405-11	CARBON	100 5% 1/6W	R436	1-249-423-11	CARBON	3.3K 5% 1/6W
R241	1-213-125-00	METAL OXIDE	33 5% 1W F	R437	1-249-429-11	CARBON	10K 5% 1/6W
R242	1-247-707-11	CARBON	390 5% 1/4W	R438	1-249-417-11	CARBON	1K 5% 1/6W
R250	1-249-421-11	CARBON	2.2K 5% 1/6W	R439	1-249-429-11	CARBON	10K 5% 1/6W
R251	1-249-417-11	CARBON	1K 5% 1/6W	R440	1-249-417-11	CARBON	1K 5% 1/6W
R252	1-246-523-00	CARBON	120K 5% 1/4W	R441	1-249-421-11	CARBON	2.2K 5% 1/6W
R253	1-249-492-11	CARBON	47K 5% 1/2W	R445	1-247-713-11	CARBON	1K 5% 1/4W
R254	1-249-406-11	CARBON	120 5% 1/6W	R448	1-249-421-11	CARBON	2.2K 5% 1/6W
R255	1-247-699-11	CARBON	82 5% 1/4W F	R451	△.1-202-727-51	SOL ID	4.7M 10% 1/2W
R261	1-202-359-17	SOL ID	100 5% 1/4W	R501	1-214-788-00	METAL	300K 1% 1/4W
R301	1-214-769-00	METAL	47K 1% 1/4W	R502	1-216-460-11	METAL OXIDE	3.9K 5% 2W F
R303	1-247-712-11	CARBON	820 5% 1/4W	R503	1-216-460-11	METAL OXIDE	3.9K 5% 2W F
R304	1-247-706-11	CARBON	330 5% 1/4W	R505	1-249-459-11	CARBON	12K 5% 1/4W F
R305	1-249-411-11	CARBON	330 5% 1/6W	R506	1-247-721-11	CARBON	4.7K 5% 1/4W
R306	1-249-411-11	CARBON	330 5% 1/6W	R507	1-249-423-11	CARBON	3.3K 5% 1/6W
R307	1-249-467-11	CARBON	68K 5% 1/4W	R508	1-247-700-11	CARBON	100 5% 1/4W
R308	1-246-507-00	CARBON	27K 5% 1/4W	R510	1-247-723-11	CARBON	6.8K 5% 1/4W
R310	1-249-427-11	CARBON	6.8K 5% 1/6W	R511	1-249-423-11	CARBON	3.3K 5% 1/6W
R311	1-249-417-11	CARBON	1K 5% 1/6W	R512	1-249-417-11	CARBON	1K 5% 1/6W
R312	1-247-717-11	CARBON	2.2K 5% 1/4W	R513	1-249-460-11	CARBON	15K 5% 1/4W
R313	1-249-412-11	CARBON	390 5% 1/6W	R515	1-249-460-11	CARBON	15K 5% 1/4W
R314	1-249-438-11	CARBON	56K 5% 1/6W	R516	1-216-434-11	METAL OXIDE	1.8K 5% 1W F
R315	1-249-431-11	CARBON	15K 5% 1/6W	R517	1-215-892-11	METAL OXIDE	1K 5% 2W F
R316	1-249-435-11	CARBON	33K 5% 1/6W	R518	△.1-213-146-61	METAL OXIDE	1.8K 5% 1W F
R317	1-249-432-11	CARBON	18K 5% 1/6W	R519	1-247-706-11	CARBON	330 5% 1/4W
R401	1-247-700-11	CARBON	100 5% 1/4W F	R520	△.1-249-447-51	CARBON	1 5% 1/4W F
R402	1-247-698-11	CARBON	68 5% 1/4W F	R521	△.1-249-383-51	CARBON	1.5 5% 1/6W F
R403	1-249-441-11	CARBON	100K 5% 1/6W	R522	1-215-854-51	METAL	15K 1% 1/4W
R404	1-249-441-11	CARBON	100K 5% 1/6W	R523	1-214-747-00	METAL	5.6K 1% 1/4W
R405	1-247-805-00	CARBON	82 5% 1/6W	☒ R524	△.1-216-460-51	METAL OXIDE	3.9K 5% 2W F
R406	1-249-418-11	CARBON	1.2K 5% 1/6W	R526	1-246-525-00	CARBON	150K 5% 1/4W
R407	1-249-405-11	CARBON	100 5% 1/6W	R527	1-214-915-00	METAL	120K 1% 1/2W
R408	1-249-431-11	CARBON	15K 5% 1/6W	R528	1-247-722-11	CARBON	5.6K 5% 1/4W
R409	1-249-427-11	CARBON	6.8K 5% 1/6W	R529	1-249-423-11	CARBON	3.3K 5% 1/6W F
R410	1-249-405-11	CARBON	100 5% 1/6W	R530	1-249-413-11	CARBON	470 5% 1/6W
R416	1-247-885-00	CARBON	180K 5% 1/6W	R533	△.1-249-383-51	CARBON	1.5 5% 1/6W F
R417	1-247-885-00	CARBON	180K 5% 1/6W	R534	1-244-919-00	CARBON	82K 5% 1/2W
R418	1-249-417-11	CARBON	1K 5% 1/6W	R535	1-247-713-11	CARBON	1K 5% 1/4W
R420	1-249-431-11	CARBON	15K 5% 1/6W	R536	1-249-429-11	CARBON	10K 5% 1/6W
R421	1-249-405-11	CARBON	100 5% 1/6W	R537	1-216-426-11	METAL OXIDE	82 5% 1W F
R422	1-249-418-11	CARBON	1.2K 5% 1/6W				

- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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C

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R538	1-247-710-11	CARBON	560 5% 1/4W			TRANSFORMER	
R539	1-249-425-11	CARBON	4.7K 5% 1/6W	T251	1-427-479-11	TRANSFORMER (SOT)	
R540	1-249-465-11	CARBON	47K 5% 1/4W	T401	1-421-749-11	TRANSFORMER, INSULATING	
R541	1-247-805-00	CARBON	82 5% 1/6W	T501	1-437-090-00	HDT	
R542	1-249-410-11	CARBON	270 5% 1/6W	T503	1-439-314-22	TRANSFORMER ASSY, FLYBACK (NX-812)	
				T601	1-421-592-11	TRANSFORMER, FERRITE	
R543	1-216-349-00	METAL OXIDE	1 5% 1W F			THERMISTOR	
R544	1-247-714-11	CARBON	1.2K 5% 1/4W	TH301	1-800-945-00	THERMISTOR S-10K	
R545	1-249-424-11	CARBON	3.9K 5% 1/6W	THP601	1-800-686-51	THERMISTOR (POSITIVE)	
R552	1-216-379-11	METAL OXIDE	6.8 5% 2W F			TUNER	
R601	1-202-719-51	SOLID	1M 10% 1/2W	TU101	1-463-603-11	TUNER, ET (BTP-201)	
R602	1-205-707-12	CEMENTED	2.2 10W			CRYSTAL	
R603	1-216-373-51	METAL OXIDE	2.2 5% 2W F	X301	1-567-505-11	OSCILLATOR, CRYSTAL	
R604	1-215-899-11	METAL OXIDE	15K 5% 2W F			*****	
R605	1-215-485-00	CARBON	470K 5% 1/6W			*A-1330-601-A C BOARD, COMPLETE	
R606	1-205-700-11	CEMENTED	200 5% 20W			*****	
R607	1-247-696-51	CARBON	47 5% 1/4W F			1-526-819-11 SOCKET, CRT	
						CONNECTOR	
R610	1-215-897-11	METAL OXIDE	6.8K 5% 2W F	C1	*1-506-371-21	2P PLUG (L)	
R612	1-216-431-51	METAL OXIDE	560 5% 1W F	C2	*1-508-786-00	2P PLUG (M)	
R613	1-207-474-00	WIREWOUND	8.2 10% 1/2W	C3	*1-566-058-11	PIN, CONNECTOR 6P	
R614	1-205-744-11	CEMENTED	4.7K 5% 20W	C4	*1-508-765-00	3P PLUG (M)	
R615	1-215-895-51	METAL OXIDE	3.3K 5% 2W F			CAPACITOR	
R616	1-216-361-51	METAL OXIDE	0.22 5% 2W F	C705	1-162-116-00	CERAMIC 680PF 10% 2KV	
				C706	1-129-714-00	FILM 0.01MF 10% 630V	
						COIL	
				L701	1-408-420-00	MICRO INDUCTOR 82UH	
				L702	1-408-420-00	MICRO INDUCTOR 82UH	
				L703	1-408-420-00	MICRO INDUCTOR 82UH	
				L704	1-408-424-00	MICRO INDUCTOR 180UH	
						TRANSISTOR	
				Q701	8-729-326-11	TRANSISTOR 2SC2611	
				Q702	8-729-326-11	TRANSISTOR 2SC2611	
				Q703	8-729-326-11	TRANSISTOR 2SC2611	
						RESISTOR	
				R701	1-249-421-11	CARBON 2.2K 5% 1/6W	
				R703	1-249-412-11	CARBON 390 5% 1/6W	
				R704	1-249-422-11	CARBON 2.7K 5% 1/6W	
				R705	1-202-824-00	SOLID 3.3K 5% 1/2W	
				R706	1-215-899-11	METAL OXIDE 15K 5% 2W F	
				R707	1-249-418-11	CARBON 1.2K 5% 1/6W	
				R708	1-249-413-11	CARBON 470 5% 1/6W	

The components identified  
by shading and mark  $\Delta$  are  
critical for safety.  
Replace only with part  
number specified.

Les composants identifiés par  
une trame et une marque  $\Delta$  sont  
critiques pour la sécurité.  
Ne les remplacer que par  
une pièce portant le numéro  
spécifié.

C

K

Ref.No.	Part No.	Description	Remark
R709	1-249-415-11	CARBON 680 5% 1/6W	
R710	1-249-422-11	CARBON 2.7K 5% 1/6W	
R711	1-202-824-00	SOLID 3.3K 1/2W	
R712	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R713	1-249-418-11	CARBON 1.2K 5% 1/6W	
R714	1-249-413-11	CARBON 470 5% 1/6W	
R715	1-249-415-11	CARBON 680 5% 1/6W	
R716	1-249-422-11	CARBON 2.7K 5% 1/6W	
R717	1-202-824-00	SOLID 3.3K 1/2W	
R718	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R719	1-202-842-11	SOLID 220K 1/2W	
R720	1-202-719-00	SOLID 1M 10% 1/2W	
R721	1-216-348-00	METAL OXIDE 0.82 5% 1W	F
R722	1-202-848-00	SOLID 680K 1/2W	
R723	1-202-838-00	SOLID 100K 1/2W	

## VARIABLE RESISTOR

RV701	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV702	1-228-722-00	RES, ADJ, CERAMIC CARBON 3.3K
RV703	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV704	1-228-722-00	RES, ADJ, CERAMIC CARBON 3.3K
RV705	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV705	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV706	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV707	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV708	1-230-798-11	RES, ADJ, METAL GLAZE 90M
RV709	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K


\*1-618-955-11 K BOARD  
\*\*\*\*\*


## JACK

EJ901 1-507-756-00 JACK (SMALL TYPE)

MISCELLANEOUS  
\*\*\*\*\*1-217-605-11 RES, WIREWOUND 2.2  
A. 1-451-234-12 DEFLECTION YOKE (SY-125A)  
1-452-032-00 MAGNET, DISK; 10MM Ø  
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø  
1-452-277-00 MAGNET, BMCA. 1-537-039-11 TERMINAL BOARD ASSY, ANTENNA  
A. 1-551-603-11 CORD, POWERL901 A. 1-426-146-31 COIL, DEMAGNETIZATION  
SP901 1-503-344-21 SPEAKER  
V901 A. 8-735-553-05 CRT (A34JBU10X)ACCESSORIES AND PACKING MATERIALS  
\*\*\*\*\*

Part No.	Description	Remark
A-1470-655-A	COMMANDER ASSY (RM-717)	
1-501-335-11	ANTENNA, TELESCOPIC (AN-18)	
1-513-379-00	CONVERTER (EAC-25)	
*4-374-990-01	CUSHION (UPPER) (ASSY)	
*4-374-991-01	CUSHION (LOWER) (ASSY)	
4-378-262-01	BAG, PROTECTION	
*4-382-565-01	INDIVIDUAL CARTON	
4-482-357-21	MANUAL, INSTRUCTION	

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# SONY® SERVICE MANUAL

## Canadian Model

Serial No. 5,001,001 and later

Chassis No. SCC-552-Y-B

No. 1

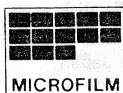
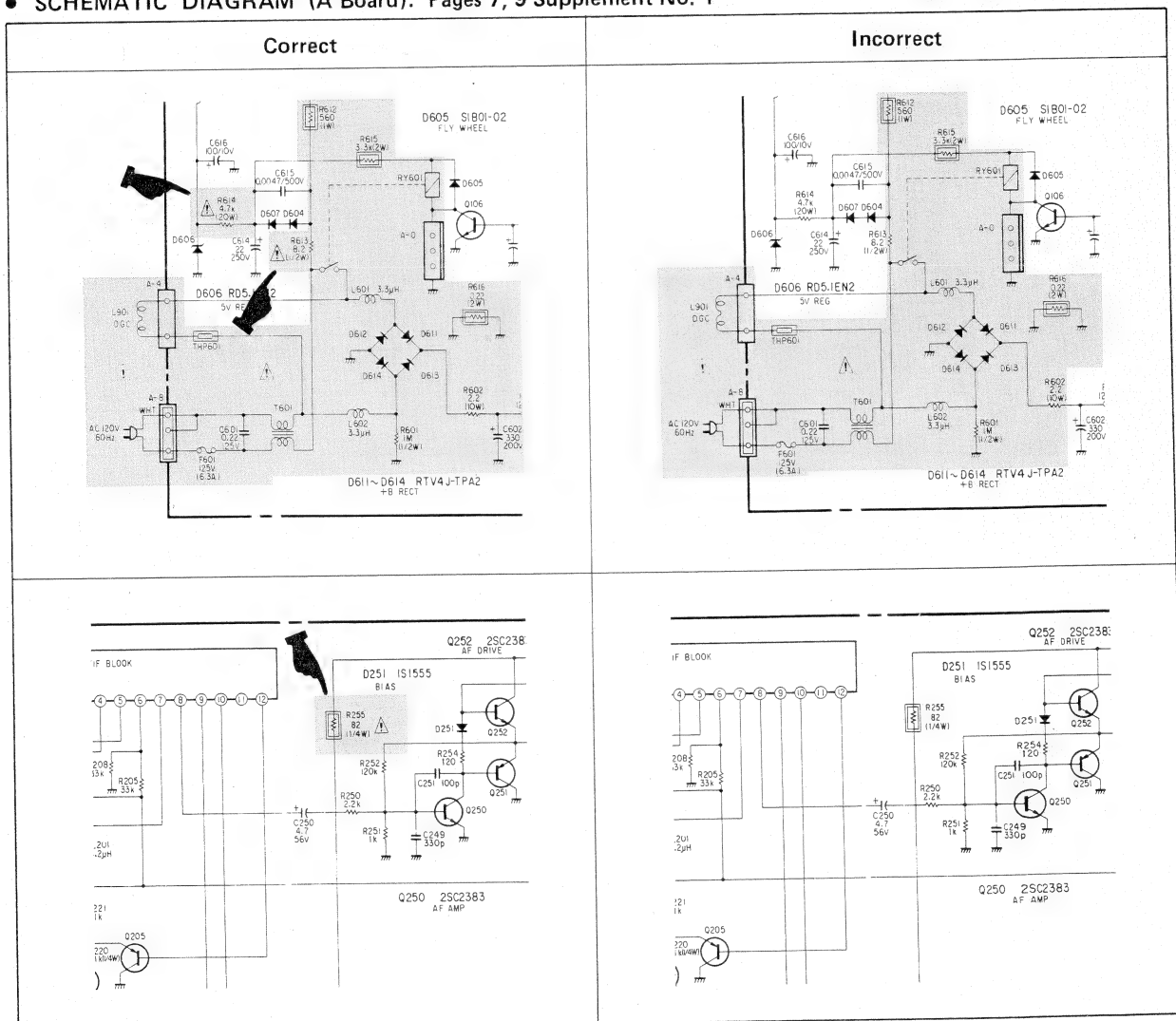
# CORRECTION

Correct the service manual shown below.

File this correction with the service manual and supplement No. 1.

: Corrected Portion

- SCHEMATIC DIAGRAM (A Board): Pages 19, 21 Service Manual
- SCHEMATIC DIAGRAM (A Board): Pages 7, 9 Supplement No. 1



- ELECTRICAL PARTS LIST: Pages 31, 32 Service Manual
- ELECTRICAL PARTS LIST: Pages 16, 17 Supplement No. 1

Correct								Incorrect							
R255	△ 1-247-699-51	CARBON	82	5%	1/4W	F		R255	1-247-699-11	CARBON	82	5%	1/4W	F	
R261	1-202-359-17	SOLID	100	5%	1/4W			R261	1-202-359-17	SOLID	100	5%	1/4W		
R301	1-214-769-00	METAL	47K	1%	1/4W			R301	1-214-769-00	METAL	47K	1%	1/4W		
R303	1-247-712-11	CARBON	820	5%	1/4W			R303	1-247-712-11	CARBON	820	5%	1/4W		
R304	1-247-706-11	CARBON	330	5%	1/4W			R304	1-247-706-11	CARBON	330	5%	1/4W		
R607	△ 1-247-696-51	CARBON	47	5%	1/4W	F		R607	△ 1-247-696-51	CARBON	47	5%	1/4W	F	
R610	1-215-897-11	METAL OXIDE	6.8K	5%	2W	F		R610	1-215-897-11	METAL OXIDE	6.8K	5%	2W	F	
R612	△ 1-216-431-51	METAL OXIDE	560	5%	1W	F		R612	△ 1-216-431-51	METAL OXIDE	560	5%	1W	F	
R613	△ 1-207-474-11	WIREWOUND	8.2	10%	1/2W			R613	1-207-474-00	WIREWOUND	8.2	10%	1/2W		
R614	△ 1-205-744-11	CEMENTED	4.7K	5%	20W			R614	1-205-744-11	CEMENTED	4.7K	5%	20W		

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- ELECTRICAL PARTS LIST: Pages 31, 32 Service Manual
- ELECTRICAL PARTS LIST: Pages 16, 17 Supplement No. 1

Correct							Incorrect						
R255	△ 1-247-699-51	CARBON	82	5%	1/4W	F	R255	1-247-699-11	CARBON	82	5%	1/4W	F
R261	1-202-359-17	SOLID	100	5%	1/4W		R261	1-202-359-17	SOLID	100	5%	1/4W	
R301	1-214-769-00	METAL	47K	1%	1/4W		R301	1-214-769-00	METAL	47K	1%	1/4W	
R303	1-247-712-11	CARBON	820	5%	1/4W		R303	1-247-712-11	CARBON	820	5%	1/4W	
R304	1-247-706-11	CARBON	330	5%	1/4W		R304	1-247-706-11	CARBON	330	5%	1/4W	
R607	△ 1-247-696-51	CARBON	47	5%	1/4W	F	R607	△ 1-247-696-51	CARBON	47	5%	1/4W	F
R610	1-215-897-11	METAL OXIDE	6.8K	5%	2W	F	R610	1-215-897-11	METAL OXIDE	6.8K	5%	2W	F
R612	△ 1-216-431-51	METAL OXIDE	560	5%	1W	F	R612	△ 1-216-431-51	METAL OXIDE	560	5%	1W	F
R613	△ 1-207-474-11	WIREWOUND	8.2	10%	1/2W		R613	1-207-474-00	WIREWOUND	8.2	10%	1/2W	
R614	△ 1-205-744-11	CEMENTED	4.7K	5%	20W		R614	1-205-744-11	CEMENTED	4.7K	5%	20W	

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12. Correct with the magnet if the landing in the corners cannot be adjusted. (See Fig. 3-5.)
13. Clamp the clamping band to fix the deflection yoke after deciding its position.

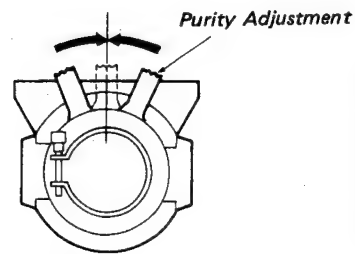


Fig. 3-3

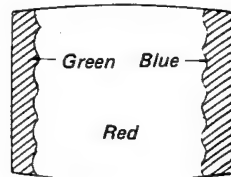


Fig. 3-4

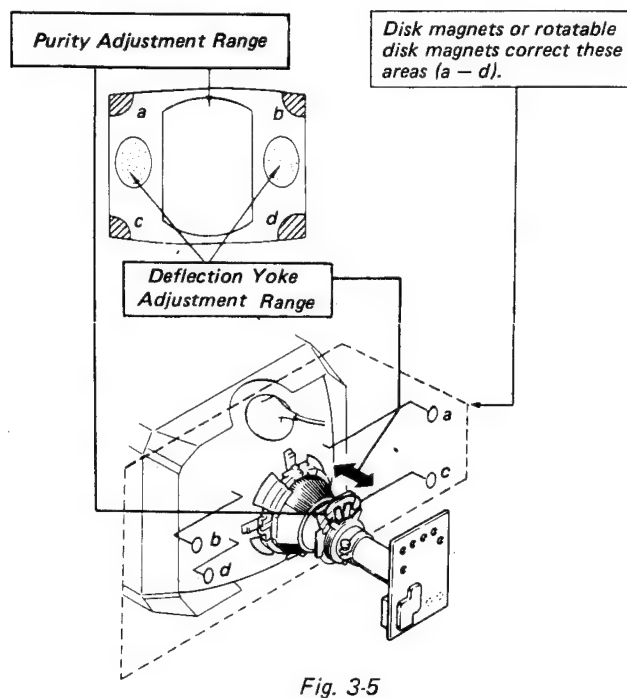


Fig. 3-5

### 3-2. CONVERGENCE

#### Preparation:

Roughly adjust the V-SIZE and focus.

#### (1) Horizontal and Vertical Static Convergence

1. Receive a dot signal using a pattern generator.
2. Rotate the BRIGHTNESS control to the minimum position and the PICTURE control to NORMAL.
3. Overlap the R and B dots in a horizontal direction in the center of the picture using the H-STAT VR knob. (See Fig. 3-6.)
4. Overlap the R and B dots in a vertical direction in the center of the picture using the V-STAT magnet (4-pole ring magnet). (See Fig. 3-7.)

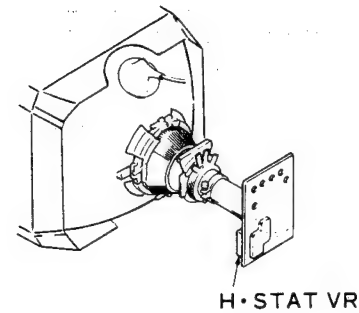


Fig. 3-6

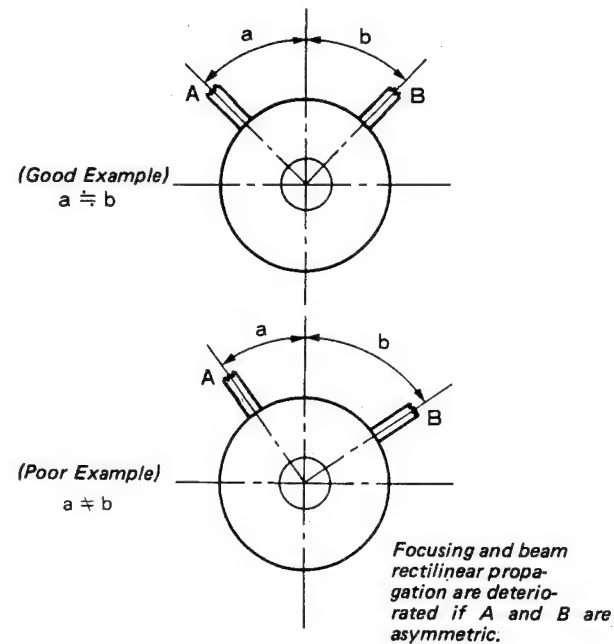


Fig. 3-7

5. Overlap the R and B-G dots in horizontal and vertical directions in the center of the picture using the HMC and VMC magnets (6-pole ring magnets). Adjust the correction amounts of the R and B-G dots by the opening angle of the magnets. Adjust the direction by rotating the two magnets simultaneously. (See Fig. 3-8.)

**NOTE:** If the H-CENT tap is changed over after adjusting H-STAT, readjust H-STAT.

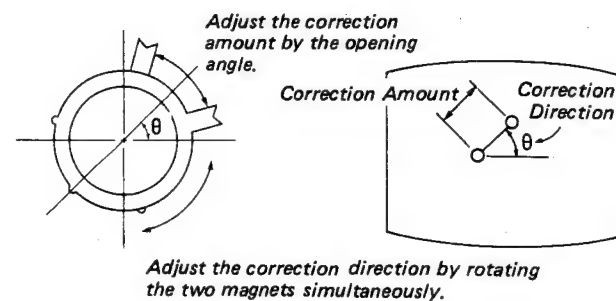


Fig. 3-8

### (2) Dynamic Convergence Adjustment

#### Preparation:

Before stating, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen the Clamping Band of deflection yoke.
2. Adjust the cross tilt misconvergence at the H and V axis ends in the picture to the best condition by oscillating the deflection yoke. (See Fig. 3-9.)

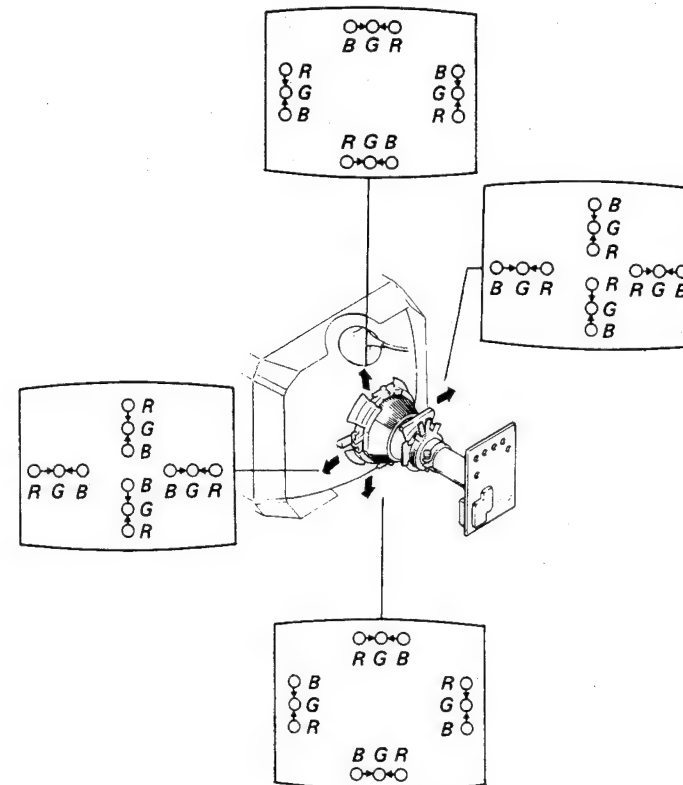


Fig. 3-9

3. Fix the deflection yoke by driving three wedges between the deflection yoke and picture tube funnel.
  4. Correct with Permalloy if the peripheral convergence cannot be corrected. (See Fig. 3-10.)
- Paint-lock each magnet after finishing adjustment so that the magnets can not move.

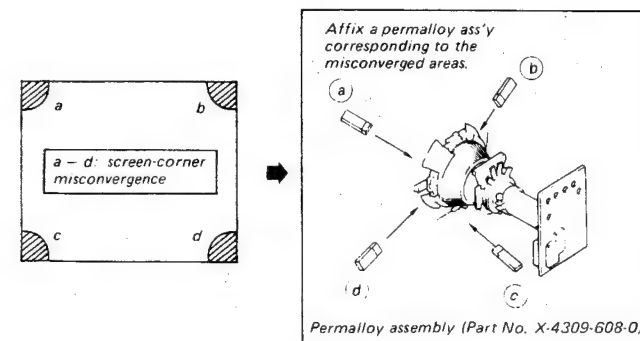


Fig. 3-10

### 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control (RV707) for a best picture.

### 3-4. WHITE BALANCE ADJUSTMENT

#### [SCREEN (G2)]

1. Receive a dot signal using a pattern generator.
2. Rotate the BRIGHTNESS control to the minimum position and the PICTURE control to NORMAL.
3. Adjust BKG VRs (RV701, RV703, and RV705) so that voltages on the red, green and blue cathodes are 160 V dc with an oscilloscope as shown in Fig. 3-11.
4. Observe the screen and adjust SCREEN (RV706) to obtain the faintly visible background of dot signal. Note the color that first becomes visible by turning SCREEN VR.

Do not turn a BKG control for this color.

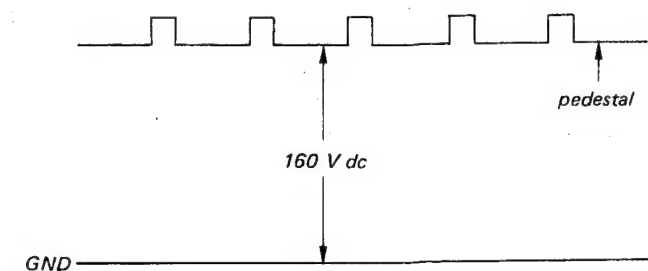
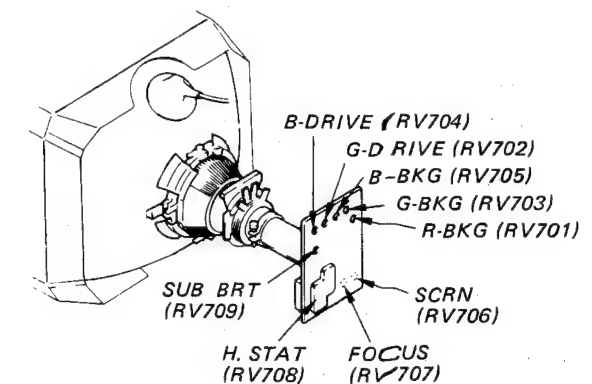


Fig. 3-11

#### [WHITE BALANCE]

1. Receive an all-white signal using a pattern generator.
2. Rotate the PICTURE control to NORMAL and the BRIGHTNESS control to the CLICK position.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Rotate the PICTURE control to maximum.
5. Observe the screen and adjust the DRIVE VRs (RV702, RV704) for best white balance.
6. Repeat steps 2 through 5 several times.



SECTION 6  
EXPLODED VIEW

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

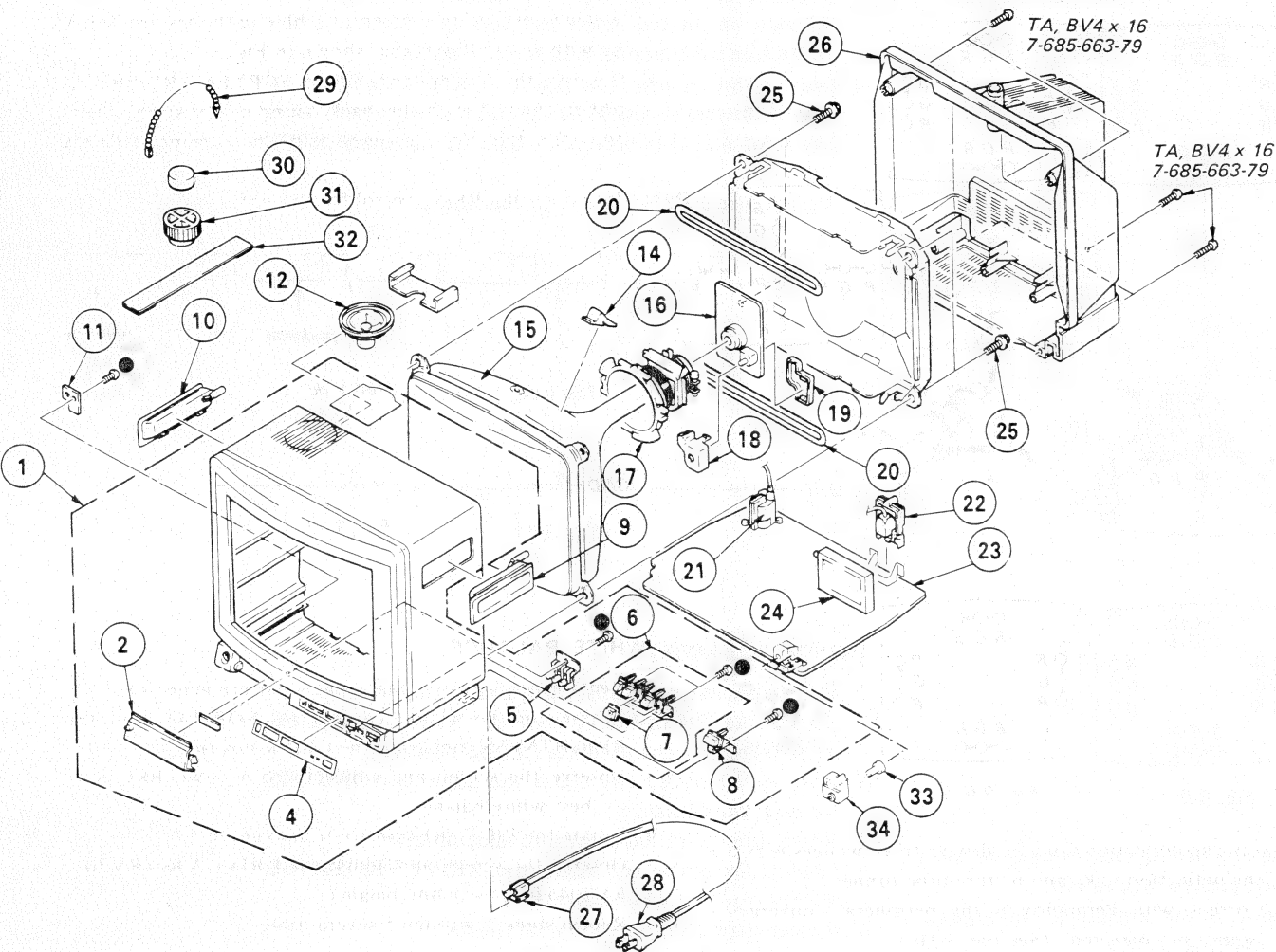
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## 6-1. CHASSIS

●: TA, BV3 x 12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4376-572-3	BEZEL ASSY		18	*4-374-912-01	COVER (MAIN), CV VOL	
2	X-4376-563-3	DOOR ASSY, CONTROL		19	*4-374-913-01	COVER (REAR LID), CV VOL	
4	4-382-544-11	WINDOW, TUNING		20	$\Delta$ 1-426-146-31	COIL, DEMAGNETIZATION	
5	4-374-950-01	PUSH BUTTON		21	$\Delta$ 1-439-314-21	TRANSFORMER ASSY, FLYBACK	
6	X-4376-530-2	BUTTON ASSY		22	$\Delta$ 1-537-039-11	TERMINAL BOARD ASSY, ANTENNA	
7	4-374-926-41	PUSH BUTTON		23	A-1296-351-A	A BOARD, COMPLETE	
8	4-374-953-21	BUTTON, POWER		24	$\Delta$ 1-463-603-11	TUNER, ET (BTP-201)	
9	4-374-920-81	HANDLE (RIGHT)		25	4-307-249-00	SCREW TAPPING (5X20)	
10	4-374-921-91	HANDLE (LEFT)		26	4-385-030-11	COVER, BACK	
11	*1-618-955-11	K BOARD		27	$\Delta$ 4-022-115-01	HOLDER, AC CORD	
12	1-503-344-21	SPEAKER		28	$\Delta$ 1-559-396-11	CORD, POWER	
13	1-452-277-00	MAGNET, BMC		29	4-308-870-00	CLIP, LEAD WIRE	
14	3-703-961-01	SPACER, DY		30	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
15	$\Delta$ 8-735-553-75	CRT (A34JBU10X)		31	1-452-094-00	MAGNET, ROTABLE DISK; 15MM $\phi$	
16	A-1330-601-A	C BOARD, COMPLETE		32	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
17	$\Delta$ 1-451-234-12	DEFLECTION YOKE (SY-125A)		33	*4-374-987-01	GUIDE, LIGHT	
				34	*4-374-988-01	BRACKET, LIGHT GUIDE	

SECTION 7  
ELECTRICAL PARTS LIST

Serial No. 5,001,001 and later					Serial No. 8,000,001 and later				
Ref. No.	Part No.	Description	Remark		Ref. No.	Part No.	Description	Remark	
* A-1296-308-A A BOARD COMPLETE (Page 14)					*A-1296-308-A A BOARD COMPLETE				
*****					*****				
CAPACITOR					CAPACITOR				
C258	1-108-794-91	MYLAR	0.0015MF	5% 50V	C258	1-130-473-00	MYLAR	0.0015MF	5% 50V
C542	1-108-835-00	MYLAR	0.0068MF	10% 50V	C542	1-130-481-00	MYLAR	0.0068MF	10% 50V
DIODE					DIODE				
D101	8-719-911-19	DIODE 1SS119			D101	8-719-815-55	DIODE 1S1555		
D104	8-719-911-19	DIODE 1SS119			D104	8-719-815-55	DIODE 1S1555		
D105	8-719-911-19	DIODE 1SS119			D105	8-719-815-55	DIODE 1S1555		
D106	8-719-911-19	DIODE 1SS119			D106	8-719-815-55	DIODE 1S1555		
D107	8-719-911-19	DIODE 1SS119			D107	8-719-815-55	DIODE 1S1555		
D110	8-719-911-19	DIODE 1SS119			D251	8-719-815-55	DIODE 1S1555		
D251	8-719-911-19	DIODE 1SS119			D303	8-719-815-55	DIODE 1S1555		
D303	8-719-911-19	DIODE 1SS119			D403	8-719-815-55	DIODE 1S1555		
D403	8-719-911-19	DIODE 1SS119			D505	8-719-815-55	DIODE 1S1555		
D505	8-719-911-19	DIODE 1SS119							
D514	8-719-901-93	DIODE V19E			D514	8-719-918-77	DIODE V19G		
D606	8-719-911-55	DIODE U05G			D606	8-719-109-85	DIODE RD5.1ES-B2		
RESISTOR					RESISTOR				
R606	Δ.1-205-700-11	CEMENTED	200 5% 20W		R606	Δ.1-205-700-21	CEMENTED	200 5% 20W	
THERMISTOR					THERMISTOR				
TH301	1-800-945-00	THERMISTOR S-10K			TH301	1-807-796-11	THERMISTOR		
TUNER					TUNER				
TU101	Δ.1-463-603-11	TUNER, ET (BTP-201)			TU101	Δ.1-463-771-11	TUNER, ET (BTP-201A)		
*****					*****				
MISCELLANEOUS (Page 18)					MISCELLANEOUS				
*****					*****				
V901	Δ.8-735-533-05	CRT (A34JBU10X)			V901	Δ.8-735-553-75	CRT (A34JBU10X)		
*****					*****				
ACCESSORIES AND PACKING MATERIALS (Page 19)					ACCESSORIES AND PACKING MATERIALS				
*****					*****				
Part No.	Description				Part No.	Description			
1-501-335-11	ANTENNA, TELESCOPIC (AN-18)				1-501-372-21	ANTENNA, TELESCOPIC			
4-382-565-01	INDIVIDUAL CARTON				4-385-067-01	INDIVIDUAL CARTON			

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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# KV-1326R

## RM-717

# SONY<sup>®</sup>

## SERVICE MANUAL

*Canadian Model*

Chassis No. SCC-754Y-A



Chassis No. SCC-754Y-B

## CORRECTION-2

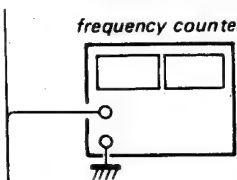

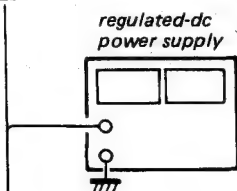
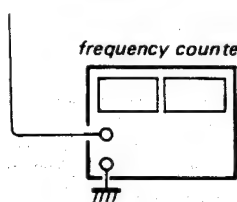

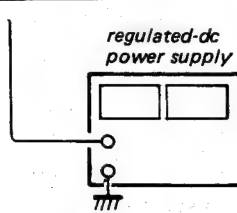
Correct the service manual as shown below.  
File this correction with the service manual.

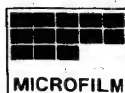
 : indicates corrected portion

COVER: Page 1 of Supplement No. 1

Incorrect	Correct
<p><i>Canadian Model</i></p> <p>Serial No. 5,001,001 and later</p> <p>Chassis No. SCC-552Y-B</p> <p>No. 1</p>	<p><i>Canadian Model</i></p> <p>Serial No. 2,000,001 and later </p> <p>Serial No. 5,000,532 and later</p> <p>Serial No. 8,000,001 and later </p> <p>Chassis No. SCC-754O-B</p> <p>No. 1</p>

4-3. SAFETY RELATED ADJUSTMENT: Page 14 of Service Manual.

Incorrect	Correct
<p>frequency counter</p> 	<p>regulated-dc power supply </p> 
<p>frequency counter</p> 	<p>regulated-dc power supply </p> 



CTV



Serial No. 2,000,001 and later  
Serial No. 5,000,532 and later  
Serial No. 8,000,001 and later

Incorrect	Correct								
<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>R524</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>R521, R522, R523, R524, R530, R534, C307, C524, D502, D512, T503, IC301</td></tr> </table> <ol style="list-style-type: none"> <li>1) Receive the dot signal PICTURE VR . . . . MIN BRIGHT VR . . . . MIN</li> <li>2) +B voltage check Confirm that the +B voltage 135V LINE is less than 136.2 V dc during input of <math>130 \pm 1.0</math> V ac.</li> <li>3) Protector voltage check Confirm that a voltage of <math>20.0 \pm 1.5</math> V dc appears between TP85 and ground during input of <math>120 \pm 1.0</math> V dc between TP85 and ground.</li> <li>4) Operation check Confirm that the hold-down circuit operates (the raster disappears) by less than 22.75V dc between TP85 and ground.</li> <li>5) Receive the dot signal.</li> <li>6) Input of <math>120 \pm 1.0</math> V ac.</li> <li>7) Error operation check Confirm that, applying <math>139 \pm 0.5</math> V dc to +B voltage (135V LINE), the hold-down circuit does not operate when changing the channel.</li> </ol> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>CHECK AFTER IC601 REPLACEMENT</b> <ol style="list-style-type: none"> <li>1. Supply <math>130 \pm 1.0</math> V ac to with variable auto-transformer.</li> <li>2. Receive the dot signal.</li> <li>3. PICTURE VR . . . . MIN BRIGHT VR . . . . MIN</li> <li>4. Confirm that the +B voltage (at TP91) is less than 136.2V dc.</li> <li>5. If step 4 is not satisfied, replace IC601 in A board and repeat above steps.</li> </ol> </div>	<input checked="" type="checkbox"/>	R524	<input checked="" type="checkbox"/>	R521, R522, R523, R524, R530, R534, C307, C524, D502, D512, T503, IC301	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>R524</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>R521, R522, R523, R524, R530, R534, C307, C524, C525, D502, D512, T503, IC301</td></tr> </table> <ol style="list-style-type: none"> <li>1) Receive the dot signal PICTURE VR . . . . MIN BRIGHT VR . . . . MIN</li> <li>2) +B voltage check Confirm that the +B voltage 135V LINE is less than 136.33V dc during input of <math>130 \pm 2.0</math> V ac.</li> <li>3) Protector voltage check Confirm that a voltage of <math>20.0 \pm 1.5</math> V dc appears between TP85 and ground during input of <math>120 \pm 1.0</math> V ac between TP85 and ground.</li> <li>4) Operation check Confirm that the hold-down circuit operates (the raster disappears) by less than 23.08V dc between TP85 and ground.</li> <li>5) Receive the dot signal.</li> <li>6) Short IC601 pins ③ and ④.</li> <li>7) Input of <math>120 \pm 1.0</math> V ac.</li> <li>8) Error operation check Confirm that, applying <math>139 \pm 0.5</math> V dc to +B voltage (135V LINE), the hold-down circuit does not operate when changing the channel.</li> </ol> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>CHECK AFTER IC601 REPLACEMENT</b> <ol style="list-style-type: none"> <li>1. Supply <math>130 \pm 1.0</math> V ac to with variable auto-transformer.</li> <li>2. Receive the dot signal.</li> <li>3. PICTURE VR . . . . MIN BRIGHT VR . . . . MIN</li> <li>4. Confirm that the +B voltage (at 135V LINE) is less than 136.33V dc.</li> <li>5. If step 4 is not satisfied, replace IC601 in A board and repeat above steps.</li> </ol> </div>	<input checked="" type="checkbox"/>	R524	<input checked="" type="checkbox"/>	R521, R522, R523, R524, R530, R534, C307, C524, C525, D502, D512, T503, IC301
<input checked="" type="checkbox"/>	R524								
<input checked="" type="checkbox"/>	R521, R522, R523, R524, R530, R534, C307, C524, D502, D512, T503, IC301								
<input checked="" type="checkbox"/>	R524								
<input checked="" type="checkbox"/>	R521, R522, R523, R524, R530, R534, C307, C524, C525, D502, D512, T503, IC301								

5-3. SCHEMATIC DIAGRAMS: Page 7 — 10 of Supplement No. 1

Incorrect	Correct								
<p>When replacing the part in below table, be sure to perform the related adjustment.</p> <table border="1"> <tr> <th>Part replaced ( <input checked="" type="checkbox"/> )</th><th>Adjustment ( <input checked="" type="checkbox"/> )</th></tr> <tr> <td>R521, R522, R523, R524, R530, T503, IC301 R534, C307, C524, D502, D512</td><td>R524</td></tr> </table>	Part replaced ( <input checked="" type="checkbox"/> )	Adjustment ( <input checked="" type="checkbox"/> )	R521, R522, R523, R524, R530, T503, IC301 R534, C307, C524, D502, D512	R524	<p>When replacing the part in below table, be sure to perform the related adjustment.</p> <table border="1"> <tr> <th>Part replaced ( <input checked="" type="checkbox"/> )</th><th>Adjustment ( <input checked="" type="checkbox"/> )</th></tr> <tr> <td>R521, R522, R523, R524, R530, T503, IC301, R534, C307, C525, D502, D512</td><td>R524</td></tr> </table>	Part replaced ( <input checked="" type="checkbox"/> )	Adjustment ( <input checked="" type="checkbox"/> )	R521, R522, R523, R524, R530, T503, IC301, R534, C307, C525, D502, D512	R524
Part replaced ( <input checked="" type="checkbox"/> )	Adjustment ( <input checked="" type="checkbox"/> )								
R521, R522, R523, R524, R530, T503, IC301 R534, C307, C524, D502, D512	R524								
Part replaced ( <input checked="" type="checkbox"/> )	Adjustment ( <input checked="" type="checkbox"/> )								
R521, R522, R523, R524, R530, T503, IC301, R534, C307, C525, D502, D512	R524								

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# KV-1326R

RM-717

## SONY<sup>®</sup> SERVICE MANUAL

*Canadian Model*

*Serial No. 8,000,001 and later*

*Chassis No. SCC-552Y-B*

No. 2

## SUPPLEMENT

SUBJECT: SET-UP ADJUSTMENT MODIFICATION SO ON

File this supplement with the service manual.

### INTRODUCTION

1. SECTION 3  
SET-UP ADJUSTMENTS
2. SECTION 6  
EXPLODED VIEW
3. SECTION 7  
ELECTRICAL PARTS LIST



**CTV**

## SECTION 3

### SET-UP ADJUSTMENTS

#### (Adjusting Magnetizing-system ITC Picture Tube for Repair)

The magnetizing-system ITC (Integrated Tube Component) does not have a function to adjust the purity static convergence. Therefore, the cylindrical magnet attached to the deflection yoke has to be replaced with a 2.4.6-pole magnet at the same time when a picture tube is replaced.

The replacement and adjusting methods are described below.

- These adjustments should be performed with rated power supply voltage unless otherwise noted.
- Controls and switch should be set as follows unless otherwise noted:  
 PICTURE control . . . . . normal position  
 BRIGHTNESS control . . . . . click position

#### Preparations

1. Remove the clamping band from the deflection yoke and dismount the cylindrical magnet.
2. Mount the replacement parts and clamping band, which are contained in the package box containing the picture tube, in the position from which the cylindrical magnet was removed. (See Fig. 3-1.)

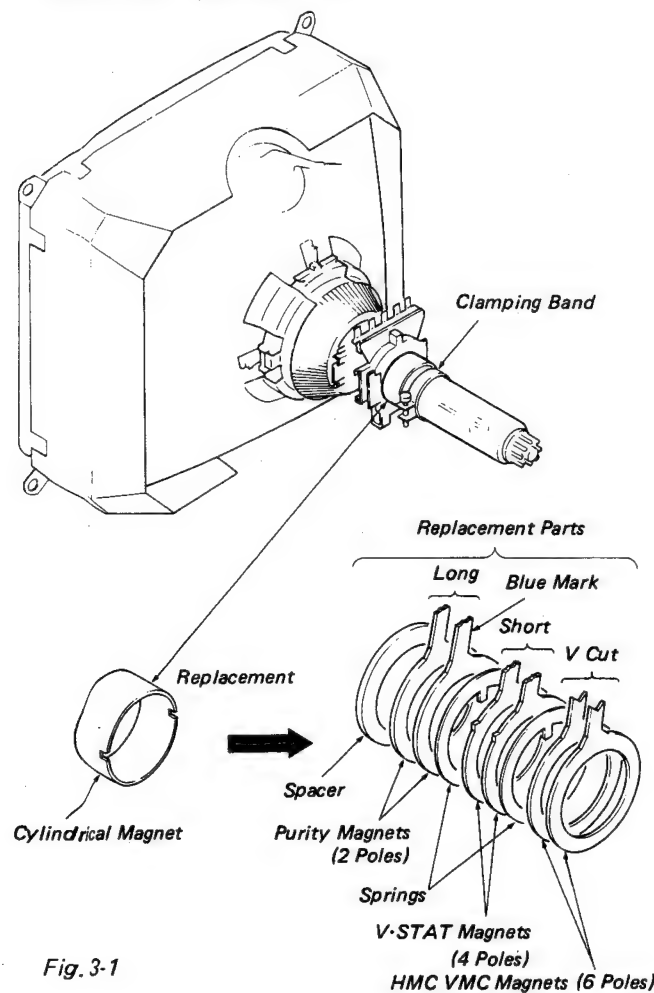


Fig. 3-1

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note:** Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

#### 3-1. BEAM LANDING

1. Face the set picture tube surface toward east or west to reduce the effects of terrestrial magnetism.
2. Reduce the magnetism of each correction magnet in the replacement parts to zero field. (See Fig. 3-2.)

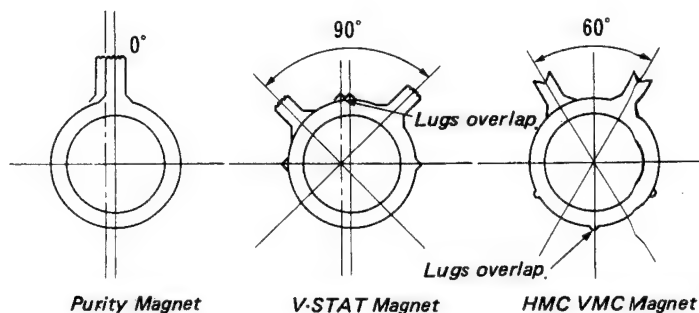


Fig. 3-2

3. Receive an all-white signal using a pattern generator.
4. Turn the set POWER switch on and demagnetize using a degausser.
5. Rotate the PICTURE control to NORMAL and the BRIGHTNESS control to the CLICK position.
6. Roughly adjust the white balance, screen, and convergence.
7. Rotate the red BKG VR (RV701) to the maximum position and the green and blue BKG VRs to the minimum positions.
8. Slide the deflection yoke backward to show red in the picture center and adjust the purity magnet to obtain a horizontal symmetry. (See Figs. 3-3, 3-4, and 3-5.)
9. Slide the deflection yoke forward to show red only throughout the picture.
10. Substitute green, then blue for red in step 7 and check landing.
11. Rotate red, green and blue once each and check landing.

3. Insert the deflection yoke into the picture tube.



# SONY<sup>®</sup> SERVICE MANUAL

*Canadian Model*

*Serial No. 5,001,001 and later*

*Chassis No. SCC-552Y-B*

No. 1

## SUPPLEMENT

**SUBJECT: A/V CIRCUIT DELETED**

File this supplement with the service manual.

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**WARNING !!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**ATTENTION!!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

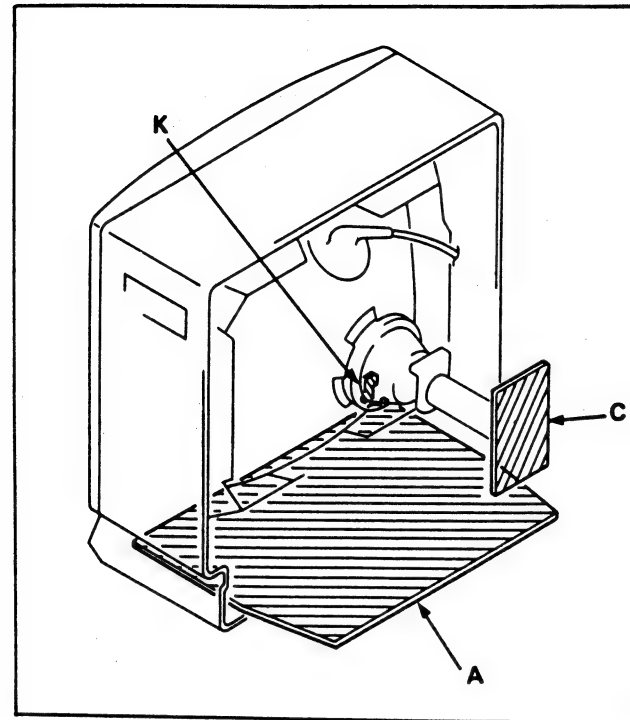
**ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.



# SECTION 5 DIAGRAMS

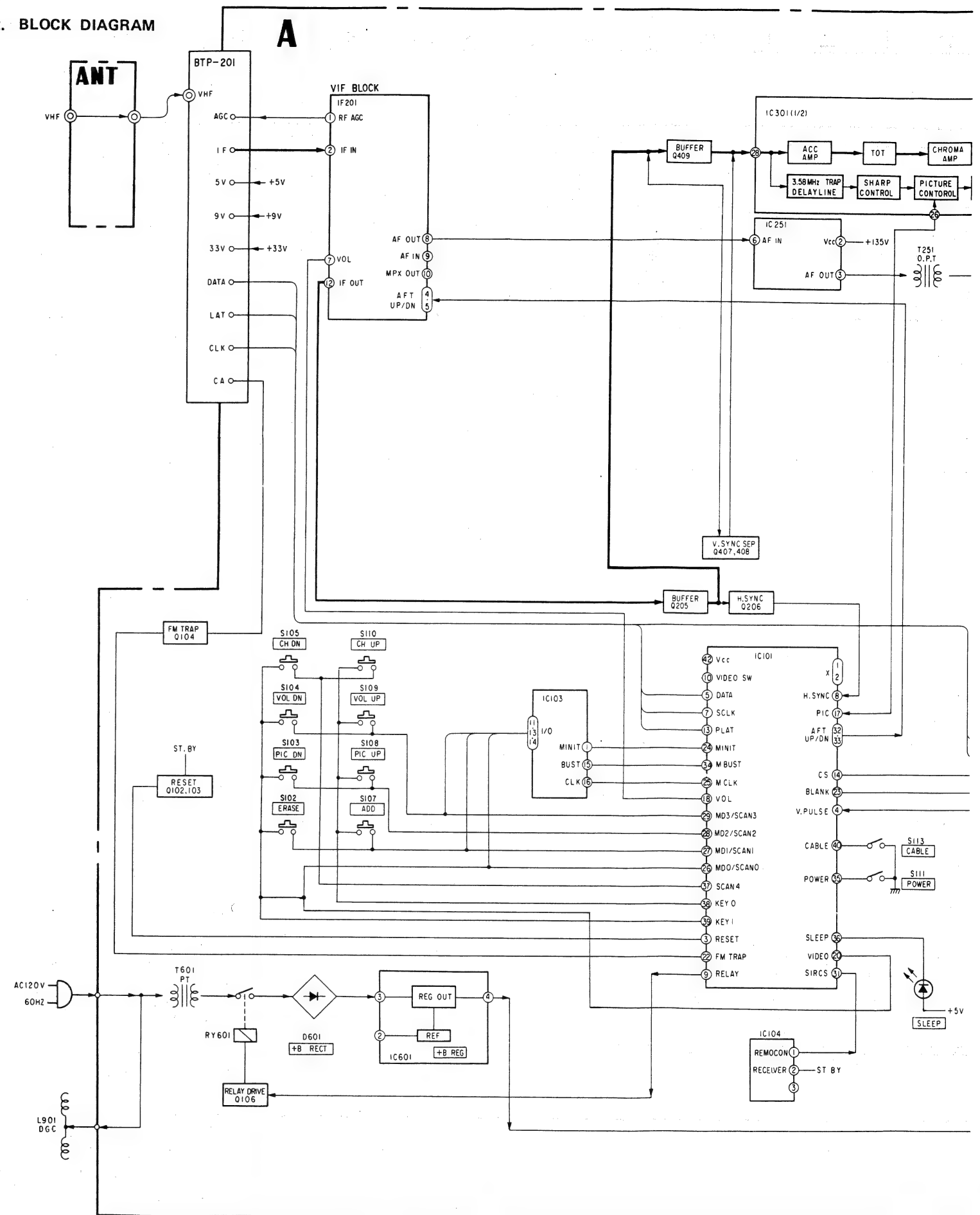
## 5-1. CIRCUIT BOARDS LOCATION

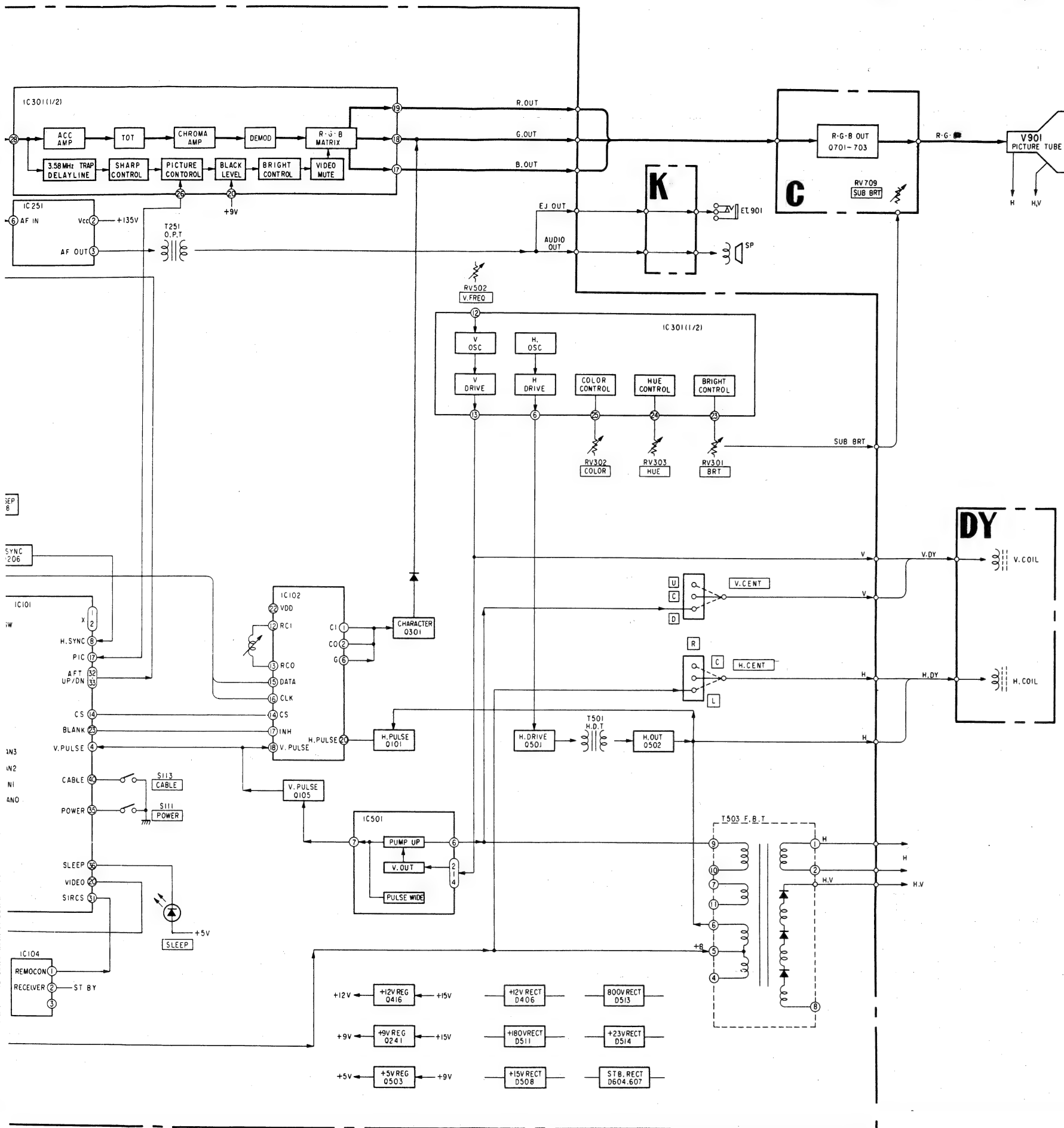


KV-1326R  
RM-717

KV-1326R  
RM-717

## 5-2. BLOCK DIAGRAM

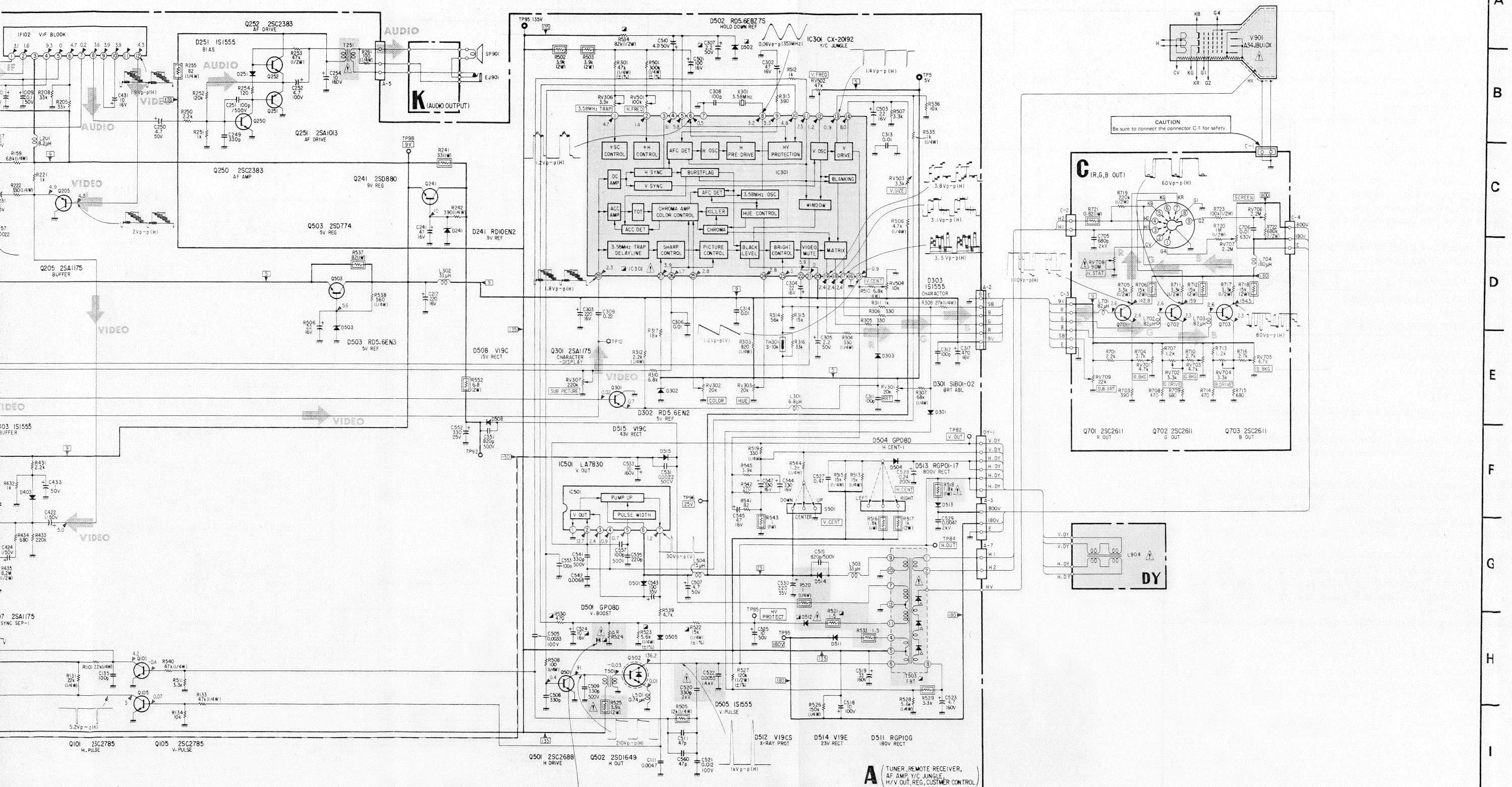








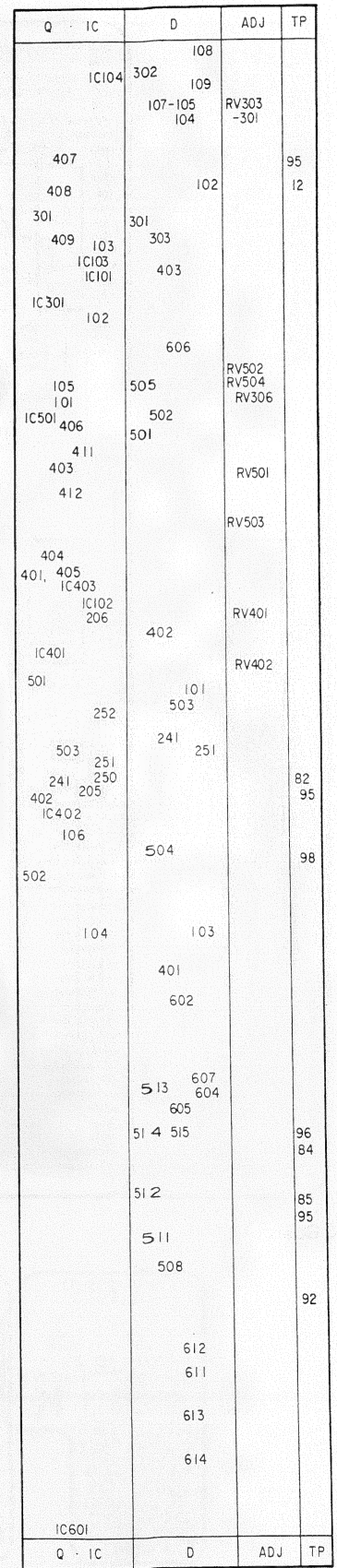






– Conductor Side –

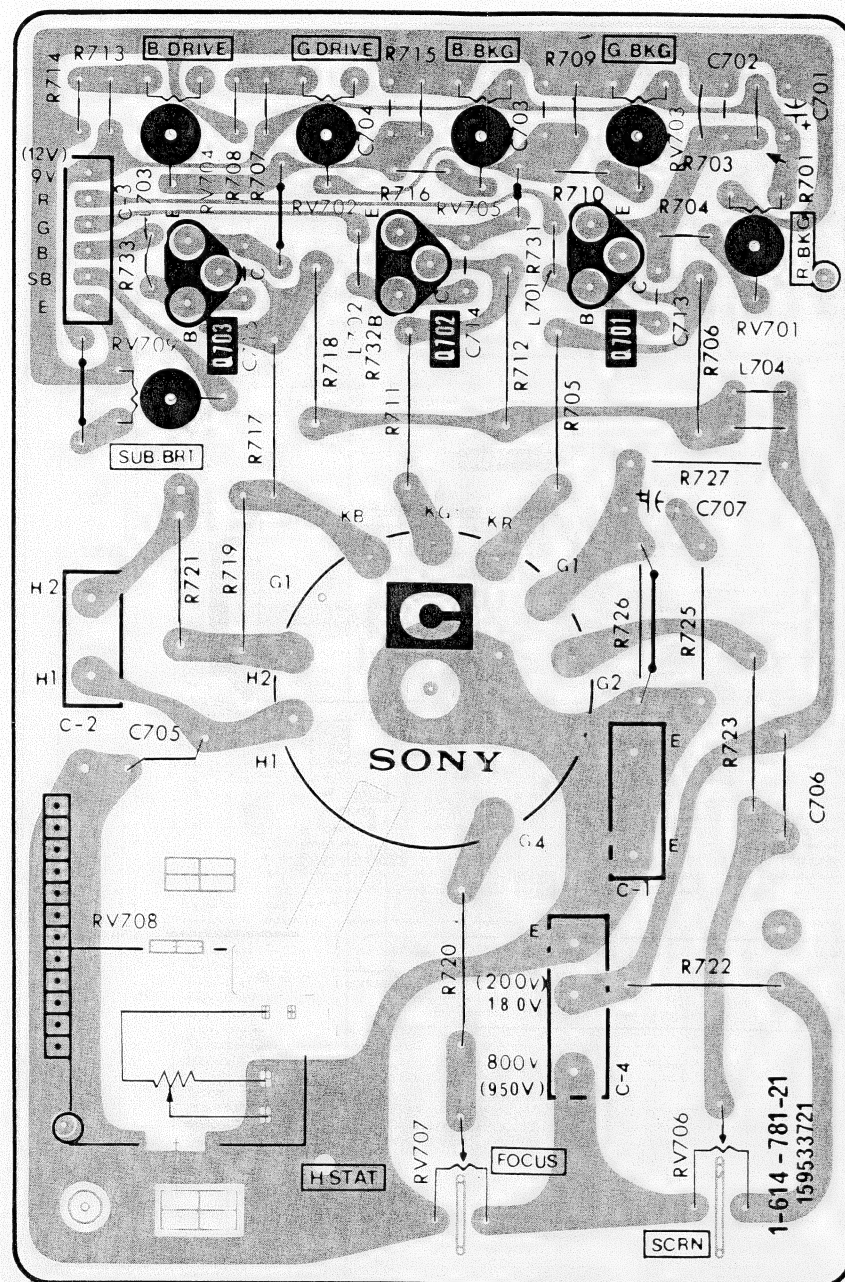
[TUNER, REMOTE RECEIVER, AF AMP,]  
[Y/C JUNGLE, V OUT, REG]



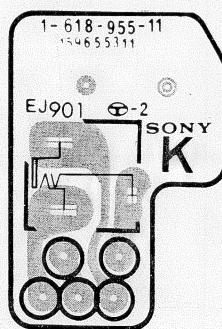


SECTION 7  
ELECTRICAL PARTS LIST

— C Board —



— K Board —



A

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

RESISTORS  
• All resistors are in ohms  
• F : nonflammable


COILS  
• MMH : mH, UH :  $\mu$ H

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F


When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1296-308-A	A BOARD, COMPLETE *****		C138	1-161-271-00	CERAMIC 100PF 5% 50V	
	*1-535-084-00	1P TERMINAL PIN		C139	1-101-004-00	CERAMIC 0.01MF 50V	
	*4-363-404-00	HOLDER, IC		C140	1-123-333-00	ELECT 100MF 20% 16V	
	*4-374-931-01	HOLDER, L.E.D		C141	1-102-074-00	CERAMIC 0.001MF 50V	
	*4-374-932-01	COVER, L.E.D		C143	1-101-004-00	CERAMIC 0.01MF 50V	
		CONNECTOR		C144	1-124-477-11	ELECT 47MF 20% 16V	
A0	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C199	1-123-356-00	ELECT 10MF 20% 50V	
A2	*1-566-058-11	PIN, CONNECTOR 6P		C217	1-123-321-00	ELECT 220MF 20% 16V	
A3	*1-508-765-00	3P PLUG (M)		C231	1-123-380-00	ELECT 1MF 20% 50V	
A4	*1-508-786-00	2P PLUG (M)		C241	1-123-332-00	ELECT 47MF 20% 16V	
A5	*1-508-765-00	3P PLUG (M)		C249	1-162-288-31	CERAMIC 330PF 10% 50V	
A7	*1-508-786-00	2P PLUG (M)		C250	1-123-369-00	ELECT 4.7MF 20% 50V	
A8	*1-506-349-21	3P PLUG (L)		C251	1-162-117-00	CERAMIC 100PF 10% 500V	
A9	*1-508-784-00	1P PLUG		C252	1-123-383-00	ELECT 4.7MF 20% 100V	
A10	*1-508-784-00	1P PLUG		C254	1-123-933-00	ELECT 10MF 20% 160V	
DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C257	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
		CAPACITOR		C258	1-108-794-91	MYLAR 0.0015MF 5% 50V	
C101	1-102-976-00	CERAMIC 180PF 10% 50V		C302	1-123-332-00	ELECT 47MF 20% 16V	
C102	1-102-976-00	CERAMIC 180PF 10% 50V		C303	1-123-321-00	ELECT 220MF 20% 16V	
C103	1-123-330-00	ELECT 22MF 20% 16V		C304	1-123-330-00	ELECT 22MF 20% 16V	
C105	1-101-884-00	CERAMIC 56PF 10% 50V		C305	1-123-381-00	ELECT 2.2MF 20% 50V	
C106	1-101-880-00	CERAMIC 47PF 10% 50V		C306	1-101-004-00	CERAMIC 0.01MF 50V	
C107	1-123-307-00	ELECT 100MF 20% 10V		C307	1-123-381-00	ELECT 2.2MF 20% 50V	
C108	1-123-379-00	ELECT 0.47MF 20% 50V		C308	1-102-973-00	CERAMIC 100PF 10% 50V	
C109	1-123-586-00	ELECT 0.1MF 20% 50V		C309	1-136-169-00	FILM 0.22MF 5% 50V	
C110	1-123-586-00	ELECT 0.1MF 20% 50V		C311	1-102-106-00	CERAMIC 100PF 10% 50V	
C111	1-102-125-00	CERAMIC 0.0047MF 10% 50V		C312	1-102-106-00	CERAMIC 100PF 10% 50V	
C112	1-123-318-00	ELECT 33MF 20% 16V		C313	1-101-004-00	CERAMIC 0.01MF 50V	
C113	1-102-976-00	CERAMIC 180PF 10% 50V		C314	1-101-004-00	CERAMIC 0.01MF 50V	
C114	1-102-973-00	CERAMIC 100PF 10% 50V		C317	1-123-323-00	ELECT 470MF 20% 16V	
C115	1-102-983-00	CERAMIC 220PF 10% 50V		C422	1-123-380-00	ELECT 1MF 20% 50V	
C116	1-123-369-00	ELECT 4.7MF 20% 50V		C424	1-123-380-00	ELECT 1MF 20% 50V	
C117	1-123-381-00	ELECT 2.2MF 20% 50V		C425	1-108-597-00	MYLAR 0.056MF 5% 50V	
C118	1-123-318-00	ELECT 33MF 20% 16V		C431	1-123-356-00	ELECT 10MF 20% 16V	
C119	1-101-004-00	CERAMIC 0.01MF 50V		C433	1-123-380-00	ELECT 1MF 20% 50V	
C120	1-102-112-00	CERAMIC 330PF 10% 50V		C501	1-123-333-00	ELECT 100MF 20% 16V	
C121	1-102-112-00	CERAMIC 330PF 10% 50V		C503	1-123-330-00	ELECT 22MF 20% 16V	
C122	1-123-318-00	ELECT 33MF 20% 16V		C505	1-106-184-00	MYLAR 0.0033MF 10% 100V	
C123	1-101-880-00	CERAMIC 47PF 10% 50V		C506	1-123-330-00	ELECT 22MF 20% 16V	
C125	1-102-125-00	CERAMIC 0.0047MF 10% 50V		C507	1-123-369-00	ELECT 4.7MF 20% 50V	
C126	1-123-369-00	ELECT 4.7MF 20% 50V		C508	1-102-112-00	CERAMIC 330PF 10% 50V	
C127	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C509	1-102-030-00	CERAMIC 330PF 10% 500V	
C128	1-123-333-00	ELECT 100MF 20% 16V		C510	1-123-369-00	ELECT 4.7MF 20% 50V	
C129	1-123-324-00	ELECT 1000MF 20% 16V		C511	1-161-267-00	CERAMIC 47PF 5% 50V	
C130	1-123-356-00	ELECT 10MF 20% 16V		C515	1-102-212-00	CERAMIC 820PF 10% 500V	
C132	1-102-983-00	CERAMIC 220PF 10% 50V		C518	1-123-384-00	ELECT 10MF 20% 100V	
C133	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C519	1-123-024-00	ELECT 33MF 160V	
C135	1-102-108-00	CERAMIC 150PF 10% 50V		C520	1-162-115-51	CERAMIC 330PF 10% 2KV	
C136	1-101-004-00	CERAMIC 0.01MF 50V		C521	1-106-369-00	MYLAR 0.012MF 10% 100V	
C137	1-123-333-00	ELECT 100MF 20% 16V		C522	1-136-063-11	FILM 0.0055MF 3% 1.4KV	
				C523	1-123-932-00	ELECT 4.7MF 20% 160V	
				C524	1-123-356-00	ELECT 10MF 20% 16V	
				C525	1-123-356-00	ELECT 10MF 20% 50V	



The components identified by shading and mark  are critical for safety. Replace only with part number specified.

---

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


A


Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q104	8-729-178-54	TRANSISTOR 2SC2785		R137	1-249-413-11	CARBON 470 5% 1/6W	
Q105	8-729-178-54	TRANSISTOR 2SC2785		R138	1-247-885-00	CARBON 180K 5% 1/6W	
Q106	8-729-255-12	TRANSISTOR 2SC2551		R139	1-247-725-11	CARBON 10K 5% 1/4W	
Q205	8-729-117-54	TRANSISTOR 2SA1175		R140	1-249-434-11	CARBON 27K 5% 1/6W	
Q206	8-729-117-54	TRANSISTOR 2SA1175		R142	1-247-710-11	CARBON 560 5% 1/4W	
Q241	8-729-288-02	TRANSISTOR 2SD880		R143	1-247-710-11	CARBON 560 5% 1/4W	
Q250	8-729-238-32	TRANSISTOR 2SC2383		R145	1-247-725-11	CARBON 10K 5% 1/4W	
Q251	8-729-201-32	TRANSISTOR 2SA1013		R147	1-247-717-11	CARBON 2.2K 5% 1/4W	
Q252	8-729-238-32	TRANSISTOR 2SC2383		R148	1-249-429-11	CARBON 10K 5% 1/6W	
Q301	8-729-117-54	TRANSISTOR 2SA1175		R149	1-249-429-11	CARBON 10K 5% 1/6W	
Q407	8-729-117-54	TRANSISTOR 2SA1175		R150	1-247-717-11	CARBON 2.2K 5% 1/4W	
Q408	8-729-178-54	TRANSISTOR 2SC2785		R152	1-249-469-11	CARBON 100K 5% 1/4W	
Q409	8-729-178-54	TRANSISTOR 2SC2785		R153	1-215-898-11	METAL OXIDE 10K 5% 2W F	
Q501	8-729-168-82	TRANSISTOR 2SC2688		R154	1-247-722-11	CARBON 5.6K 5% 1/4W	
Q502	8-729-802-50	TRANSISTOR 2SD1649-CA		R155	1-249-433-11	CARBON 22K 5% 1/6W	
Q503	8-729-177-43	TRANSISTOR 2SD774		R157	1-246-507-00	CARBON 27K 5% 1/4W	
RESISTOR				R159	1-247-723-11	CARBON 6.8K 5% 1/4W	
R101	1-249-462-11	CARBON 22K 5% 1/4W		R160	1-247-722-11	CARBON 5.6K 5% 1/4W	
R102	1-249-414-11	CARBON 560 5% 1/6W		R161	1-249-425-11	CARBON 4.7K 5% 1/6W	
R103	1-247-717-11	CARBON 2.2K 5% 1/4W		R162	1-249-469-11	CARBON 100K 5% 1/4W	
R104	1-247-717-11	CARBON 2.2K 5% 1/4W		R163	1-249-460-11	CARBON 15K 5% 1/4W	
R105	1-249-462-11	CARBON 22K 5% 1/4W		R164	1-247-713-11	CARBON 1K 5% 1/4W	
R106	1-249-405-11	CARBON 100 5% 1/6W		R165	1-249-416-11	CARBON 820 5% 1/6W	
R107	1-247-713-11	CARBON 1K 5% 1/4W		R166	1-213-131-00	METAL OXIDE 100 5% 1W F	
R108	1-247-713-11	CARBON 1K 5% 1/4W		R168	1-249-417-11	CARBON 1K 5% 1/6W	
R109	1-249-417-11	CARBON 1K 5% 1/6W		R169	1-247-713-11	CARBON 1K 5% 1/4W	
R110	1-249-417-11	CARBON 1K 5% 1/6W		R170	1-249-417-11	CARBON 1K 5% 1/6W	
R111	1-249-462-11	CARBON 22K 5% 1/4W		R171	1-249-417-11	CARBON 1K 5% 1/6W	
R112	1-249-462-11	CARBON 22K 5% 1/4W		R205	1-249-435-11	CARBON 33K 5% 1/6W	
R113	1-249-433-11	CARBON 22K 5% 1/6W		R208	1-249-435-11	CARBON 33K 5% 1/6W	
R114	1-249-433-11	CARBON 22K 5% 1/6W		R221	1-249-417-11	CARBON 1K 5% 1/6W	
R115	1-249-459-11	CARBON 12K 5% 1/4W		R222	1-247-706-11	CARBON 330 5% 1/4W	
R116	1-247-721-11	CARBON 4.7K 5% 1/4W		R223	1-249-440-11	CARBON 82K 5% 1/6W	
R117	1-247-883-00	CARBON 150K 5% 1/6W		R224	1-247-891-00	CARBON 330K 5% 1/6W	
R118	1-249-431-11	CARBON 15K 5% 1/6W		R226	1-249-429-11	CARBON 10K 5% 1/6W	
R120	1-247-717-11	CARBON 2.2K 5% 1/4W		R227	1-247-717-11	CARBON 2.2K 5% 1/4W	
R121	1-249-421-11	CARBON 2.2K 5% 1/6W		R228	1-249-405-11	CARBON 100 5% 1/6W	
R122	1-249-421-11	CARBON 2.2K 5% 1/6W		R241	1-213-125-00	METAL OXIDE 33 5% 1W F	
R123	1-247-713-11	CARBON 1K 5% 1/4W		R242	1-247-707-11	CARBON 390 5% 1/4W	
R124	1-247-725-11	CARBON 10K 5% 1/4W		R250	1-249-421-11	CARBON 2.2K 5% 1/6W	
R125	1-247-711-11	CARBON 680 5% 1/4W		R251	1-249-417-11	CARBON 1K 5% 1/6W	
R126	1-247-717-11	CARBON 2.2K 5% 1/4W		R252	1-246-523-00	CARBON 120K 5% 1/4W	
R127	1-247-717-11	CARBON 2.2K 5% 1/4W		R253	1-249-492-11	CARBON 47K 5% 1/2W	
R128	1-249-421-11	CARBON 2.2K 5% 1/6W		R254	1-249-406-11	CARBON 120 5% 1/6W	
R129	1-247-883-00	CARBON 150K 5% 1/6W		R255	1-247-699-11	CARBON 82 5% 1/4W F	
R130	1-247-883-00	CARBON 150K 5% 1/6W		R261	1-202-359-17	SOLID 100 5% 1/4W	
R131	1-249-462-11	CARBON 22K 5% 1/4W		R301	1-214-769-00	METAL 47K 1% 1/4W	
R132	1-247-726-11	CARBON 33K 5% 1/4W		R303	1-247-712-11	CARBON 820 5% 1/4W	
R133	1-249-465-11	CARBON 47K 5% 1/4W		R304	1-247-706-11	CARBON 330 5% 1/4W	
R134	1-249-429-11	CARBON 10K 5% 1/6W		R305	1-249-411-11	CARBON 330 5% 1/6W	
R135	1-249-429-11	CARBON 10K 5% 1/6W		R306	1-249-411-11	CARBON 330 5% 1/6W	
R136	1-249-429-11	CARBON 10K 5% 1/6W		R307	1-249-467-11	CARBON 68K 5% 1/4W	
				R308	1-246-507-00	CARBON 27K 5% 1/4W	




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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R310	1-249-427-11	CARBON	6.8K 5% 1/6W	R540	1-249-465-11	CARBON	47K 5% 1/4W
R311	1-249-417-11	CARBON	1K 5% 1/6W	R541	1-247-805-00	CARBON	82 5% 1/6W
R312	1-247-717-11	CARBON	2.2K 5% 1/4W	R542	1-249-410-11	CARBON	270 5% 1/6W
R313	1-249-412-11	CARBON	390 5% 1/6W	R543	1-216-349-00	METAL OXIDE	1 5% 1W F
R314	1-249-438-11	CARBON	56K 5% 1/6W	R544	1-247-714-11	CARBON	1.2K 5% 1/4W
R315	1-249-431-11	CARBON	15K 5% 1/6W	R545	1-249-424-11	CARBON	3.9K 5% 1/6W
R316	1-249-435-11	CARBON	33K 5% 1/6W	R552	1-216-379-11	METAL OXIDE	6.8 5% 2W F
R317	1-249-432-11	CARBON	18K 5% 1/6W	R601	1-202-719-51	SOLID	1M 10% 1/2W
R431	1-249-421-11	CARBON	2.2K 5% 1/6W	R602	1-205-707-12	CEMENTED	2.2 10W
R432	1-249-417-11	CARBON	1K 5% 1/6W	R603	1-216-373-51	METAL OXIDE	2.2 5% 2W F
R433	1-247-887-00	CARBON	220K 5% 1/6W	R604	1-215-899-11	METAL OXIDE	15K 5% 2W F
R434	1-249-415-11	CARBON	680 5% 1/6W	R605	1-247-895-00	CARBON	470K 5% 1/6W
R435	1-202-730-00	SOLID	8.2M 10% 1/2W	R606	1-205-700-11	CEMENTED	200 5% 20W
R436	1-249-423-11	CARBON	3.3K 5% 1/6W	R607	1-247-696-51	CARBON	47 5% 1/4W F
R437	1-249-429-11	CARBON	10K 5% 1/6W	R610	1-215-897-11	METAL OXIDE	6.8K 5% 2W F
R438	1-249-417-11	CARBON	1K 5% 1/6W	R612	1-216-431-51	METAL OXIDE	560 5% 1W F
R439	1-249-429-11	CARBON	10K 5% 1/6W	R613	1-207-474-00	WIREWOUND	8.2 10% 1/2W
R440	1-249-417-11	CARBON	1K 5% 1/6W	R614	1-205-744-11	CEMENTED	4.7K 5% 20W
R441	1-249-421-11	CARBON	2.2K 5% 1/6W	R615	1-215-895-51	METAL OXIDE	3.3K 5% 2W F
R501	1-214-788-00	METAL	300K 1% 1/4W	R616	1-216-361-51	METAL OXIDE	0.22 5% 2W F
R502	1-216-460-11	METAL OXIDE	3.9K 5% 2W F	VARIABLE RESISTOR			
R503	1-216-460-11	METAL OXIDE	3.9K 5% 2W F	RV301	1-230-815-11	RES, VAR, CARBON(WITH SW)20KX3	
R505	1-249-459-11	CARBON	12K 5% 1/4W F	RV302	1-230-815-11	RES, VAR, CARBON(WITH SW)20KX3	
R506	1-247-721-11	CARBON	4.7K 5% 1/4W	RV303	1-230-815-11	RES, VAR, CARBON(WITH SW)20KX3	
R507	1-249-423-11	CARBON	3.3K 5% 1/6W	RV306	1-228-992-11	RES, ADJ, CARBON 3.3K	
R508	1-247-700-11	CARBON	100 5% 1/4W	RV307	1-228-998-00	RES, ADJ, CARBON 220K	
R510	1-247-723-11	CARBON	6.8K 5% 1/4W	RV501	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K	
R511	1-249-423-11	CARBON	3.3K 5% 1/6W	RV502	1-228-996-00	RES, ADJ, CARBON 47K	
R512	1-249-417-11	CARBON	1K 5% 1/6W	RV503	1-228-992-11	RES, ADJ, CARBON 3.3K	
R513	1-249-460-11	CARBON	15K 5% 1/4W	RV504	1-230-630-11	RES, ADJ, CARBON 10K	
R515	1-249-460-11	CARBON	15K 5% 1/4W	RELAY			
R516	1-216-434-11	METAL OXIDE	1.8K 5% 1W F	RY601	1-515-346-22	RELAY	
R517	1-215-892-11	METAL OXIDE	1K 5% 2W F	SWITCH			
R518	1-213-146-61	METAL OXIDE	1.8K 5% 1W F	S102	1-554-804-11	SWITCH, PUSH (1 KEY)	
R519	1-247-706-11	CARBON	330 5% 1/4W	S103	1-554-804-11	SWITCH, PUSH (1 KEY)	
R520	1-249-447-51	CARBON	1 5% 1/4W F	S104	1-554-804-11	SWITCH, PUSH (1 KEY)	
R521	1-249-383-51	CARBON	1.5 5% 1/6W F	S105	1-554-804-11	SWITCH, PUSH (1 KEY)	
R522	1-215-854-51	METAL	15K 1% 1/4W	S107	1-554-804-11	SWITCH, PUSH (1 KEY)	
R523	1-214-747-00	METAL	5.6K 1% 1/4W	S108	1-554-804-11	SWITCH, PUSH (1 KEY)	
R524	1-249-447-51	CARBON	1 5% 1/4W	S109	1-554-804-11	SWITCH, PUSH (1 KEY)	
R525	1-216-460-51	METAL OXIDE	3.9K 5% 2W F	S110	1-554-804-11	SWITCH, PUSH (1 KEY)	
R526	1-246-525-00	CARBON	150K 5% 1/4W	S111	1-554-804-12	SWITCH, PUSH (1 KEY)	
R527	1-214-915-00	METAL	120K 1% 1/2W	S113	1-230-815-11	RES, VAR, CARBON(WITH SW)20KX3	
R528	1-247-722-11	CARBON	5.6K 5% 1/4W	S501	1-554-186-00	SWITCH, LEVER	
R529	1-249-423-11	CARBON	3.3K 5% 1/6W F	TRANSFORMER			
R530	1-249-413-11	CARBON	470 5% 1/6W	T251	1-427-479-11	TRANSFORMER (SOT)	
R533	1-249-383-51	CARBON	1.5 5% 1/6W F	T501	1-437-090-00	HDT	
R534	1-244-919-00	CARBON	82K 5% 1/2W	T503	1-439-314-22	TRANSFORMER ASSY, FLYBACK	
R535	1-247-713-11	CARBON	1K 5% 1/4W	T601	1-421-592-11	TRANSFORMER, FERRITE	
R536	1-249-429-11	CARBON	10K 5% 1/6W				
R537	1-216-426-11	METAL OXIDE	82 5% 1W F				
R538	1-247-710-11	CARBON	560 5% 1/4W				
R539	1-249-425-11	CARBON	4.7K 5% 1/6W				

- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

A

C

K

Ref.No. Part No. Description Remark

THERMISTOR

TH301 1-800-945-00 THERMISTOR S-10K  
THP601A 1-800-686-51 THERMISTOR (POSITIVE)

TUNER

TU101A 1-463-603-11 TUNER, ET (BTP-201)

CRYSTAL

X301 1-567-505-11 OSCILLATOR, CRYSTAL

\*A-1330-601-A C BOARD, COMPLETE  
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1-526-819-11 SOCKET, CRT  
\*4-374-912-01 COVER (MAIN), CV VOL  
\*4-374-913-01 COVER (REAR LID), CV VOL

CONNECTOR

C1 \*1-506-371-00 2P PLUG (L)  
C2 \*1-508-786-00 2P PLUG (M)  
C3 \*1-566-058-11 PIN, CONNECTOR 6P  
C4 \*1-508-765-00 3P PLUG (M)

CAPACITOR

C705 1-162-116-00 CERAMIC 680PF 10% 2KV  
C706 1-129-714-00 FILM 0.01MF 10% 630V

COIL

L701 1-408-420-00 MICRO INDUCTOR 82UH  
L702 1-408-420-00 MICRO INDUCTOR 82UH  
L703 1-408-420-00 MICRO INDUCTOR 82UH  
L704 1-408-424-00 MICRO INDUCTOR 180UH

TRANSISTOR

Q701 8-729-326-11 TRANSISTOR 2SC2611  
Q702 8-729-326-11 TRANSISTOR 2SC2611  
Q703 8-729-326-11 TRANSISTOR 2SC2611

RESISTOR

R701 1-249-421-11 CARBON 2.2K 5% 1/6W  
R703 1-249-412-11 CARBON 390 5% 1/6W  
R704 1-249-422-11 CARBON 2.7K 5% 1/6W  
R705 1-202-824-00 SOLID 3.3K 1/2W  
R706 1-215-899-11 METAL OXIDE 15K 5% 2W F  
  
R707 1-249-418-11 CARBON 1.2K 5% 1/6W  
R708 1-249-413-11 CARBON 470 5% 1/6W  
R709 1-249-415-11 CARBON 680 5% 1/6W  
R710 1-249-422-11 CARBON 2.7K 5% 1/6W  
R711 1-202-824-00 SOLID 3.3K 1/2W  
  
R712 1-215-899-11 METAL OXIDE 15K 5% 2W F  
R713 1-249-418-11 CARBON 1.2K 5% 1/6W  
R714 1-249-413-11 CARBON 470 5% 1/6W  
R715 1-249-415-11 CARBON 680 5% 1/6W

Ref.No. Part No. Description Remark

R716 1-249-422-11 CARBON 2.7K 5% 1/6W  
R717 1-202-824-00 SOLID 3.3K 1/2W  
R718 1-215-899-11 METAL OXIDE 15K 5% 2W F  
R719 1-202-842-11 SOLID 220K 1/2W  
R720 1-202-719-00 SOLID 1M 10% 1/2W

R721 1-216-348-00 METAL OXIDE 0.82 5% 1W F  
R722 1-202-848-00 SOLID 680K 1/2W  
R723 1-202-838-00 SOLID 100K 10% 1/2W

VARIABLE RESISTOR

RV701 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K  
RV702 1-228-722-00 RES, ADJ, CERAMIC CARBON 3.3K  
RV703 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K  
RV704 1-228-722-00 RES, ADJ, CERAMIC CARBON 3.3K  
RV705 1-228-723-00 RES, ADJ, CERAMIC CARBON 4.7K

RV706 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M  
RV707 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M  
RV708A 1-230-798-11 RES, ADJ, METAL GLAZE 90M  
RV709 1-228-725-00 RES, ADJ, CERAMIC CARBON 22K

\*1-618-955-11 K BOARD  
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JACK

EJ901 1-507-756-00 JACK (SMALL TYPE)

MISCELLANEOUS

1-217-605-11 RES, WIREWOUND 2.2  
A 1-451-234-12 DEFLECTION YOKE (SY-125A)  
1-452-032-00 MAGNET, DISK; 10MM Ø  
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø  
1-452-277-00 MAGNET, BMC

A 1-537-039-11 TERMINAL BOARD ASSY, ANTENNA  
A 1-551-603-11 CORD, POWER

L901 A 1-426-146-31 COIL, DEMAGNETIZATION  
SP901 1-503-344-21 SPEAKER  
V901 A 8-735-553-05 CRT (A34JBU10X)

The components identified  
by shading and mark A are  
critical for safety.  
Replace only with part  
number specified.

Les composants identifiés par  
une trame et une marque A sont  
critiques pour la sécurité.  
Ne les remplacer que par  
une pièce portant le numéro  
spécifié.

ACCESSORIES AND PACKING MATERIALS  
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<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
A-1470-655-A	COMMANDER ASSY (RM-717)	
1-513-379-00	CONVERTER (EAC-25)	
1-501-335-11	ANTENNA, TELESCOPIC (AN-18)	
*4-374-990-01	CUSHION (UPPER) (ASSY)	
*4-374-991-01	CUSHION (LOWER) (ASSY)	
4-378-262-01	BAG, PROTECTION	
*4-382-565-01	INDIVIDUAL CARTON	
4-482-357-21	MANUAL, INSTRUCTION	
4-482-357-31	MANUAL, INSTRUCTION	